

DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER

MODEL 8000A

© THE HICKOK ELECTRICAL INSTRUMENT CO.—1967
10514 DUPONT AVENUE • CLEVELAND, OHIO 44108

PHONE — 541-8060
TWX — CV 662

CABLE — HICKOK, CLEVELAND
WESTERN UNION — KJ

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WARRANTY

The Hickok Electrical Instrument Company warrants instruments of its manufacture to be free from defects in material and workmanship for ninety (90) days from the date of original purchase. Any instrument found to be defective during this period may be returned, transportation prepaid, to the factory for repair, or at our option, replaced without charge.

- 2-1 Case
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This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons, or which have been subject to misuse, negligence, or accident, or which have had the serial number altered, effaced or removed. Neither shall the warranty apply where a warranty registration card has not been properly completed and returned to us promptly after purchase. This warranty is in lieu of all other warranties whether expressed or implied.

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INSTRUCTIONS

FOR MODIFICATION OF

TUBE TESTER MODEL 6000A

(from 115 volts a. c. to 230 volts a. c. operation)

The Model 6000A Tube Tester is designed to operate on either 115 volts or 230 volts. It is shipped from the factory to operate on 115 volts. If 230 volt operation is desired, it is necessary to change the wiring of the power transformer from a parallel hook-up to a series hook-up. For parallel and series hook-ups, see the schematic wiring diagram in the rear of this manual.

For modification of the Model 6000A, from 115 volts to 230 volts, proceed as follows:

a. POWER TRANSFORMER

(1) Disconnect the black wire which is connected to the lug marked (W) and disconnect the white-black wire which is connected to the lug marked (X). Both located on transformer.

(2) Splice together and solder the two above wires. Insulate connection with electrical insulating tape.

(3) Do not disturb the other wires which are connected to the lugs marked (W) and (X). Inspect (W) and (X) for good electrical connections.

b. LINE FUSE

(1) Replace the No. 81 fuse lamp with a No. 63 lamp.

c. CALIBRATION CHECK

Plug the Model 6000A into a 230 v. a. c. power source, and turn the LINE ADJUST to the ON position. The meter needle will deflect up-scale to the area marked LINE TEST. No further calibration is necessary.

d. For modification of the Model 6000A from 230 volts to 115 volts, reverse the above procedure.

SECTION 1

GENERAL INFORMATION

1-1 FUNCTIONAL DESCRIPTION

The Hickok Model 6000A Dynamic Mutual Conductance Tube Tester is used for testing the important conditions of tubes. It is designed for accuracy, portability, simplicity of operation, on 115 volts or 230 volts. It provides filament voltages from 0.6 to 117 volts in 19 steps.

The Model 6000A is capable of testing and measuring mutual conductance and the life expectancy of vacuum tubes used in television, radio, and transmitting tubes delivering less than 25 watts of power. Transistors, Diodes, Compactrons, Novars, and Nuvisors can be checked on the Model 6000A. Mutual Conductance (GM) values are indicated on the test meter in one of three scales, 0-3000, 0-6000, and 0-15,000 micromhos. The value of GM is determined by the setting of the SHUNT control.

Mounted on the tube mounting plate are eight tube sockets used for testing various tubes. A built-in roll chart is provided to give test data for more than 1350 vacuum tubes normally encountered in the servicing of entertainment type electronic equipment. The roll chart is replaceable and is revised semi-annually to include tube data available at the time of each printing. Revised roll charts can be ordered directly from the factory.

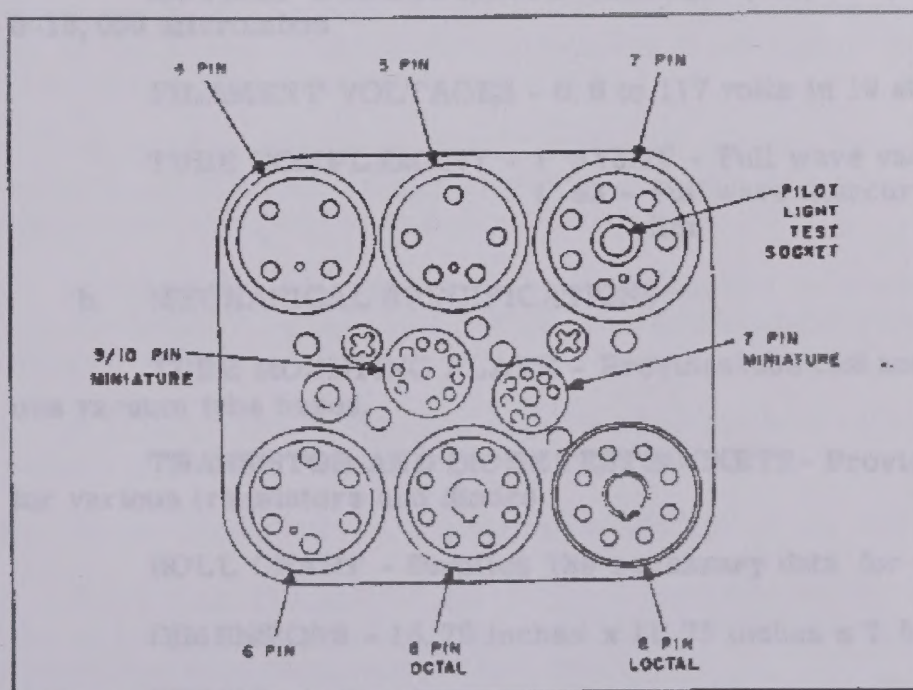


Figure 1-1. Accessory Tube Mounting Plate

Figure 1-1 illustrates the Accessory Tube Mounting Plate which is available for testing older type tubes and pilot lights. The tube mounting plate can be ordered directly from the factory under Hickok part number 1050-145, and consists of the following tube sockets: 4 pin, 5 pin, 6 pin, 7 pin (for testing pilot lights), 8 pin octal, 8 pin loctal, 7 pin miniature, and a 9/10 pin miniature. When shipped from the factory it is completely wired for use on the Model 6000A. When it is desired to test older type tubes, remove the tube mounting plate mounted on the front panel by means of the two large screws, and plug the accessory tube mounting plate (shown in figure 1-1) into the 12 pin plug on the top panel. Replace screws.

1-2 INSTRUCTION MANUAL CHANGES

Due to the Hickok policy of continued product improvement, sometimes engineering changes are made before they can be incorporated in the instruction manual. When this situation occurs an amendment sheet and/or a new schematic wiring diagram will be added to this manual until such time as a new manual can be printed. Thus you are assured that your information is up-to-date and applies to your particular instrument.

1-3 SPECIFICATIONS

a. ELECTRICAL SPECIFICATIONS

POWER REQUIREMENTS - 115 volts or 230 volts, 50-70 cycles, 40 watts.

MUTUAL CONDUCTANCE RANGES (GM) - 0-3000, 0-6000, 0-15,000 micromhos

FILAMENT VOLTAGES - 0.6 to 117 volts in 19 steps.

TUBE COMPLEMENT - 1 5Y3GT - Full wave vacuum rectifier
1 83 - Full wave mercury vapor rectifier

b. MECHANICAL SPECIFICATIONS

TUBE MOUNTING PLATE - Provides tube test sockets for various vacuum tube bases.

TRANSISTOR AND DIODE TEST SOCKETS - Provide test sockets for various transistors and diodes.

ROLL CHART - Supplies the necessary data for testing tubes.

DIMENSIONS - 16.75 inches x 11.75 inches x 7.5 inches.

WEIGHT - 16 pounds net

FINISH - Red leatherette portable case, with detachable lid.

SECTION 2

OPERATOR'S SECTION

2-1 GENERAL

The Model 6000A Mutual Conductance tube tester can test vacuum tubes, rectifier tubes, thyratrons, transistors, diodes, and rectifiers. It can measure Mutual Conductance, Grid Current, Filament Continuity, Shorts, and Leakage currents for all vacuum tubes. It also provides "GOOD-BAD" quality tests for NPN and PNP transistors and a forward conduction efficiency test on semiconductor diodes.

2-2 INSPECTION AND ADJUSTMENT

Before placing the Model 6000A into operation, visually inspect it for any physical damage such as broken or loose knobs, broken meter cover, etc. All damage claims must be made to the carrier within 48 hours of receipt of the equipment. A damage report sheet is included with this manual giving detailed instructions for filing a damage report.

All calibration controls have been preset at the factory, therefore no adjustment of the Model 6000A is necessary prior to operation.

2-3 FRONT PANEL CONTROLS AND CONNECTORS

Personnel should become familiar with the controls and operating features of the Model 6000A before attempting to put it into operation. The front panel controls are explained below:

a. **FILAMENT VOLTAGE SELECTOR** - 20 position switch - permits selection of filament voltage to correspond with data on roll chart. To be positioned according to roll chart data.

b. **POWER LINE ADJUST** - A rheostat that has two purposes: First, it acts as an ON-OFF switch, and second, it provides standardization of test voltages.

c. **BIAS CONTROL** - Permits adjustment of the bias voltage (from 0-40 volts) for the tube under test.

d. **SHUNT CONTROL** - Controls the sensitivity of the test meter.

e. **FUNCTION SELECTOR SWITCH** - 8 position switch. Permits selection of the proper test circuit for the different tube types under test. To be positioned according to roll chart data.

f. **FILAMENT SELECTOR** - 14 position switch. Permits selection of tube pin to which filament voltage (positive) is applied. To be positioned according to roll chart data.

g. **FILAMENT SELECTOR** - 14 position switch. Permits selection of tube pin to which filament voltage (negative) is applied. To be positioned according to roll chart data.

h. **GRID SELECTOR** - 14 position switch. Permits selection of tube pin to which grid voltage is applied. To be positioned according to roll chart data.

i. **PLATE SELECTOR** - 14 position switch. Permits selection of tube pin to which plate voltage is applied. To be positioned according to roll chart data.

j. **SCREEN SELECTOR** - 14 position switch. Permits selection of tube pin to which screen voltage is applied. To be positioned according to roll chart data.

k. **CATHODE SELECTOR** - 14 position switch. Permits selection of cathode pin connection. To be positioned according to roll chart data.

l. **SUPPRESSOR SELECTOR** - 14 position switch. Permits selection of suppressor pin connection. To be positioned according to roll chart data.

m. **FILAMENT CONTINUITY** - 2 position pushbutton. When depressed the meter will indicate if the filaments of the tube are continuous or opened.

n. **TEST** - 2 position pushbutton. Must be depressed for all tests, EXCEPT FOR TESTING TRANSISTORS AND DIODES.

o. **GAS** - 2 position pushbutton. When depressed simultaneously with the TEST button, the meter will indicate grid current.

p. **ROLL CHART COLUMNS**

(1) **TUBE TYPE** - List of all tubes in numerical-alphabetical order that can be tested on the Model 6000A.

(2) **FIL** - The switch marked **FILAMENT** in the upper left corner of the panel is used to set the proper voltage for the filament of the tube to be tested.

(3) **SELECTORS** - This row of seven switches across the front panel above the roll chart is for the purpose of conducting voltages to the base pins of the tube under test. This column consists of letters and numbers. EXAMPLE: JR-6237-5. Starting at the left, the first knob **FILAMENT** is turned until it points to the letter J; the second knob **FILAMENT** is turned to R; the third knob **GRID** is turned to 6; the fourth knob

PLATE is turned to 2; the fifth knob SCREEN is turned to 3; the sixth knob CATHODE is turned to 7; and the seventh knob SUPPRESSOR is turned to 5.

(4) BIAS - This column lists the BIAS settings for various tubes to be tested.

(5) SHUNT - This column lists the meter SHUNT dial settings for the various tubes to be tested.

(6) FUNCTION and MUT. COND. - The first column lists the proper setting for the FUNCTION Selector switch. The second column (with numbers) lists the value of mutual conductance that is normal for the average tube.

(7) NOTATIONS - This column lists special notes pertaining to special tests and/or notes pertaining to the tube under test.

2-4 PREPARATION FOR USE

The Model 6000A is designed for operation on 115 volts or 230 volts, 50-70 cycle line. Turn the POWER LINE ADJUST to ON and adjust it until the needle on the meter face is directly in line with LINE TEST. Set the front panel controls according to the data on the roll chart. After the front panel controls have been set, place the tube to be tested into the proper socket. Allow at least 30 seconds for the tube to achieve its operating temperature.

2-5 TEST PROCEDURES

CAUTION

Do not insert tube to be tested into test socket until correct settings of all controls have been made.

a. FILAMENT CONTINUITY TEST

After the FILAMENT voltage selector and the two FILAMENT SELECTORS are set, the tube to be tested can be inserted into the proper test socket. Adjust the POWER LINE ADJUST until the needle on the meter is directly over LINE TEST on the meter face. To check the continuity of the filaments of the tube under test, depress the button marked FILAMENT CONTINUITY. If the filaments of the tube under test are good, the needle on the meter will remain near LINE TEST, and if they are open, the needle will drop back to zero.


SHORTS							
X-DENOTES DARK LAMP							
SHORTED	P	SC	SU	K	G	F	
FIL - CATH.					X	X	
FIL - GRID						X	
FIL - SCR.N.			X	X	X	X	
FIL - PLT.		X	X	X	X	X	
FIL - SUP.				X	X	X	
CATH - GRID					X		
CATH - SCR.N.			X	X			
CATH - PLT.		X	X	X			
CATH - SUP.				X			
GRID - SCR.N.			X	X	X		
GRID - PLT.		X	X	X	X		
GRID - SUP.				X	X		
SCR.N - PLT.		X					
SCR.N - SUP.			X				
PLT. - SUP.		X	X				

Table 2-1. Locating Shorted Elements

b. SHORTS TEST

Located under a lamp shield, in the center of the front panel, are five glow lamps which will glow when the tube tester is turned ON. If any element or elements of the vacuum tube under test are shorted, the glow in one or more of the lamps will disappear, indicating a shorted tube. Shorted tubes should be discarded without further testing.

NOTE

Check all SELECTORS settings so they correspond with data on roll chart for tube under test.

Table 2-1, Locating Shorted Elements, indicates which elements are shorted and which lamp or lamps are not glowing. The (X) indicates which lamps are dark.

c. QUALITY TEST

If the tube passes the Short Test, a Quality Test should be made. Ascertain that all of the controls are set as indicated on the roll chart. Depress the red button marked TEST. Meter needle will now indicate

condition of tube. If the vacuum tube is good, the needle on the test meter will remain in the area marked LINE TEST, or move into the GOOD area. If the tube is faulty, the needle on the test meter will move into the REPLACE area. Disregard the MICROMHOS scale.

d. MUTUAL CONDUCTANCE TEST

The SHUNT setting listed on the roll chart is used to read the condition of the tube being tested on the REPLACE-GOOD scale. The number listed on the roll chart under the heading of FUNCT. AND MUT. COND. indicates the Mutual Conductance of the tube. The SHUNT control has three red dots stamped into the metal and marked 3000, 6000, and 15,000. These numbers correspond with the meter scale to be used. The red dots indicate the exact setting of the shunt control for the separate scales. The scale to use is determined by the roll chart data. For example: If the mutual conduction of a particular tube is listed as 5400 (5400 micromhos). Set the SHUNT control to the red dot at 87 and read the value of mutual conductance on the 0-6000 micromho scale.

e. RECTIFIERS, DIODES AND THYRATRONS

Rectifier tubes, including diode tubes and diode sections of multiple element tubes, having no mutual conductance are tested for emission only. When the red button marked TEST is depressed, good rectifier and diode tubes will cause the needle on the meter to move above the point marked DIODES OK. In checking thyratrons, such as the 884 and the 885, the BIAS control should be set at 100 which is the highest negative value. Depress the TEST button, and hold down while the BIAS control is gradually turned counterclockwise until the tube strikes, that is, begins to conduct, which is indicated by a sudden deflection of the needle on the test meter. The NOTATIONS column of the roll chart indicates the approximate point at which the tube STRIKES. After the tube STRIKES, or begins to conduct, it should produce a steady meter reading in the GOOD area of the scale.

f. GAS (GRID CURRENT) TEST

Some tubes develop gas after being heated for a period of time. When a tube has a gas condition, the grid current will increase and cause the tube to over-conduct. If a tube is suspected of a gaseous condition, set all the controls according to the data on the roll chart. Depress the red button marked TEST and the button marked GAS. Test meter will now indicate the grid current up to 100 microamps. Grid current in excess of two microamps is undesirable. If the tube being tested causes the needle on the test meter to move more than two small divisions, it should be discarded.

g. LIFE TEST

The purpose of a life test is to determine how long the tube may be expected to perform satisfactorily. Ascertain that all of the controls are set as indicated on the roll chart. Depress the red button marked

TEST and adjust the SHUNT control until the needle on the meter reads in the GOOD sector at 2000 on the 0-3000 micromho scale. Wait until the needle comes to a stop. Hold everything constant, reduce FILAMENT voltage selector one step (see table 2-2). If the needle remains in the GOOD sector of the scale, the vacuum tube has a long life expectancy and will perform satisfactorily.

NORMAL FIL VOLTAGE	REDUCE FIL VOLTAGE TO
1.4	1.1
2.0	1.4
2.5	2.0
3.0	2.5
5.0	4.3
6.3	5.0
7.5	6.3
10.0	7.5
12.6	10.0
17.0	12.6
20.0	17.0
25.0	20.0
35.0	25.0
50.0	35.0

Table 2-2. Filament Voltage Chart

h. TRANSISTORS (NPN or PNP)

Transistors can be tested for leakage currents on the Model 6000A. To test a transistor for leakage, proceed as follows:

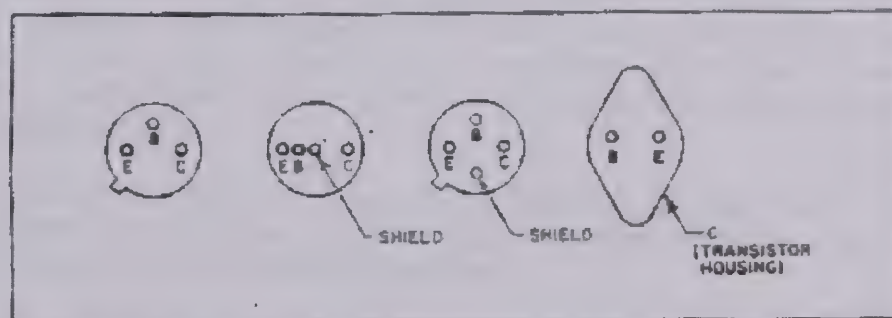


Figure 2-1. Transistor Lead Identification

(1) Rotate POWER LINE ADJUST until the needle on the test meter is directly over the area marked LINE TEST.

(2) Rotate FUNCTION switch to position "H". Meter needle will drop back to zero.

(3) Set the SHUNT control to 100.

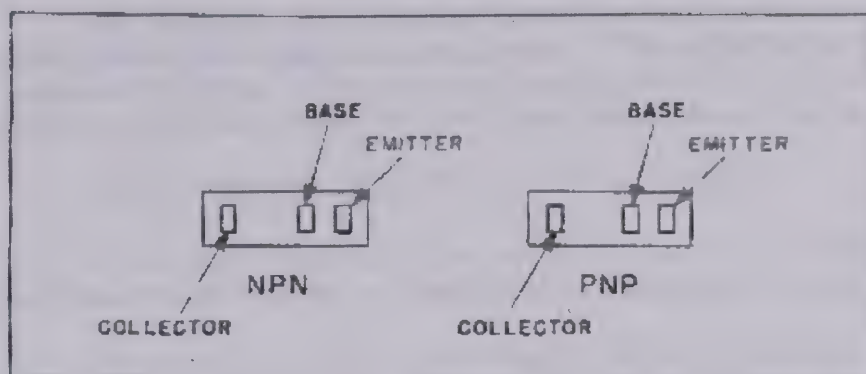


Figure 2-2. Transistor Socket Identification

(4) Insert transistor to be tested into the proper socket (PNP or NPN). Be sure to check the manufacturers data to determine the type of transistor. Transistors can be damaged if placed into the wrong socket. See Figure 2-2 for correct socket identification.

(5) Adjust the SHUNT control until the needle on the test meter reads full scale or 100% on the lower scale. If the test meter fails to indicate an upscale deflection, the transistor is open or defective.

(6) Push the slide switch marked LEAKAGE-GAIN to the LEAKAGE position. Test meter will now indicate the leakage current on the lower scale for TRANSISTORS. If the needle is in the GOOD area the transistor is good, and if the needle is in the POOR area, the transistor should be discarded.

I. RECTIFIER TESTS - COPPER OXIDE, SELENIUM, and SILICON

The red (+) and black (-) jacks, located near the transistor test sockets (lower right hand corner) are used to check the forward to reverse conduction ratio of rectifiers. When testing rectifiers, disconnect them from the circuit under test. Connect the rectifier as follows and make the following adjustments:

(1) Connect the positive lead of the rectifier to the black (-) jack, and the negative lead to the red (+) jack. When connected this way, the rectifier is biased in the forward direction.

(2) Adjust POWER LINE ADJUST until needle on meter is directly over the area marked LINE TEST.

(3) Set SHUNT control to 100.

(4) Set FUNCTION switch to position "H". Needle on meter will drop to zero.

(5) Adjust the SHUNT control for a full scale deflection of the needle on the test meter (100%).

(6) Remove the rectifier from the test socket and reverse the rectifier leads and replace in test socket. The rectifier is now biased in the reverse direction. A meter reading that is 10% or more of full scale deflection indicates a defective rectifier and it should be replaced.

j. DIODE TESTS - SILICON and GERMANIUM

Diodes are checked by the same procedure as testing rectifiers, because they rectify but do not handle large currents like power rectifiers.

Some knowledge of the characteristics of the diode being tested will help because some high conduction diodes used in video detectors can be rated good if they produce a 10 : 1 (10%) forward to reverse conduction ratio.

k. PILOT LAMP TEST (For use with the Accessory Tube Mounting Plate)

The tube mounting plate in Figure 1-1 is used to test pilot lights. This adapter can be mounted in the center of the top panel. To test a pilot light use the seven pin socket in the upper right hand corner of the tube mounting plate, and set the operating controls as follows:

- (1) Set the FILAMENT SELECTOR to B.
- (2) Set the FILAMENT SELECTOR to X.
- (3) Set the FILAMENT voltage selector to the filament voltage of the pilot light.
- (4) Insert pilot light to be tested into the center of the seven pin socket, which is mounted on the tube mounting plate.
- (5) Pilot light will light if good.

SECTION 3

CIRCUIT DESCRIPTION AND TROUBLESHOOTING

3-1 OVERALL FUNCTIONAL DESCRIPTION

The Hickok Model 6000A is a versatile test instrument containing two full-wave rectifiers. A schematic wiring diagram (figure 3-1) is provided for individual component location. The controls and connectors that appear on the top panel are named on the schematic for easy correlation. The power requirements are provided by a single power transformer operating on either 115 volts or 230 volts.

3-2 TROUBLESHOOTING

The troubles and remedies indicated in Table 3-1 will aid in troubleshooting.

TROUBLE	REMEDY
Meter does not respond when TEST button is depressed	Check R4, POWER LINE ADJUST for opens or shorts. Check FUSE lamp for a burned out condition. If burned out, replace with No. 81 lamp for 115V operation, or No. 63 lamp for 230 volt operation. Check line cord. Check BIAS FUSE lamp for a burned out condition. If burned out replace only with a No. 49 panel lamp.
SHORTS lamps do not light when tester is turned ON	Check the FUSE lamp. Check neon lamps DS1 to DS5 for shorts or opens.
Tester is turned ON, meter does not respond, BIAS FUSE and FUSE lamp do not light and POWER LINE ADJUST can not make meter respond.	Check tubes V1 (83) and V2 (5Y3) for shorts or opens. Check transformer T1 for burned odor, shorts or opens. Check line cord.

Table 3-1. Troubleshooting Chart

OPERATING INSTRUCTIONS
for
DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER
MODEL 600

The Instrument Packed Herewith is:_____

1. Model 600 Vacuum Tube Tester_____

Accessories included with the Model 600 tester are:

1 -- Booklet Instructions for Model 600_____

1 -- Grid Lead with Clip_____

Serial Number_____

Signed:_____

Instruction for operation of Model 600.

Read These Instructions Through Before Attempting to operate the Tester.

1. This instrument is designed to operate on 60 cycles 110-125 volt power source. It can be used on frequencies from 50 to 400 cycles, 110-120 volts.

2. There are two rectifier tubes, an 83 and a 5Y3GT, necessary to operate this tester. They are included. The fuse lamp is a standard #81 auto lamp. The neon lamp is a General Electric, 1/4 watt, 110 volt, candelabra base signal lamp.

3. LINE VOLTAGE ADJUSTMENT. - After the power is turned ON, press the push switch P7 which will cause the pointer of the meter to move up the scale. The button P7 is held down and the knob, LINE ADJUST, is turned until the meter pointer rests exactly over the mark, LINE TEST, at the center of the meter scale. This establishes standard voltages on the tube. Make final line adjustment after the tube being tested is placed in its socket.

4. SELECTORS. - The row of selector knobs across the center of the control panel is for the purpose of conducting proper voltages to the tube's base pins. The operation of setting these selector knobs is similar to dialing a telephone number. On the roll chart, below the word SELECTORS appear the dialing numbers. These dialing numbers consist of two letters and five figures. Example: JR-6237-5. Starting at the left, the first knob (FIL) is turned until it points at the letter J, the second knob (FIL) is turned to R, the third knob (GRID) to 6, the fourth (PLATE) to 2, the fifth

(SCREEN) to 3, the sixth (CATHODE) to 7, and the seventh (SUPPRESSOR) to 5. These selector switches are electrically interlocked so that it is impossible to connect two different voltages to the same tube pin. Thus accidental shorts are avoided.

The selector system is designed to minimize selector settings. For example the filament setting is nearly always JR. These two knobs seldom need resetting. Also in testing duo-diode-triode tubes the amount of selector setting has been reduced to a minimum.

5. SHORT TEST. - The SHORTS switch has six positions. The first five are used in testing the tube for shorts. The sixth position TUBE TEST is used when indicating mutual conductance. Use the TUBE TEST Position only if the tube has no shorts.

Turning the SHORTS switch successively through the positions 1-2-3-4-5 connects the various elements in turn across the test voltage. Tubes having shorted elements will complete the circuit and cause the neon lamp to glow. Tubes may be tested for shorts either hot or cold. A short is indicated by a steady glow on both plates of the neon lamp. A momentary flash of the neon lamp as the shorts switch is turned from one position to another should be disregarded. This flashing is caused by the charging of a condenser in the short test circuit. A shorted tube should be

discarded without further test. With tubes having more than one section such as the 6J6, make short test for each section.

Locating Shorted Elements. In the following table(X) under any SHORT switch position indicates that the neon lamp glows in that position.

KIND OF SHORT	1	2	3	4	5
FIL -- CATHODE			X		
FIL -- GRID	X	X			X
FIL -- PLATE	X	X		X	X
FIL -- SCREEN	X		X	X	X
FIL -- SUP		X			
GRID -- CATHODE	X	X	X		X
GRID -- PLATE				X	
GRID -- SCREEN		X	X	X	
GRID -- SUP	X				X
PLATE -- SCREEN		X	X		
PLATE -- SUP	X			X	X
SCREEN -- SUP	X	X	X	X	X

6. MUTUAL CONDUCTANCE. - Tubes having SHORTS should be discarded without further tests.

If the tube passes the preliminary short test it is then tested for MUTUAL CONDUCTANCE which is the best test for amplifier tubes. Turn the SHORTS switch to TUBE TEST position. On the roller chart, reading from left to right, opposite the tube type appear: FIL. VOLTAGE; SELECTORS, which were explained in paragraph (4) above; BIAS, which gives the setting for the BIAS dial; ENG, which gives the setting for the ENGLISH dial; PRESS, which indicates the push button to be pressed for meter reading; MUT-COND, which gives the AVERAGE MUTUAL CONDUCTANCE in MICROMHOS of the tube being tested. Under the heading NOTATIONS appear special notes pertaining to the testing of the tube.

The ENGLISH setting is used when it is desired to read the value of the tube on the RED-GREEN (ENGLISH) sector of the meter scale. When using the ENGLISH scale the MICROMHO readings are disregarded.

NOTE

Tubes having less than 500 Micromhos cannot be made to read in the GREEN sector of the meter scale. Such tubes list micromho reading only and are good if the reading is above a specified minimum.

Micromhos are indicated in three ranges 0-3000, 0-6000, 0-15,000.

a. On the English dial are three dots stamped into the metal and filled with red lacquer. These dots are the points used in setting the micromho ranges.

b. The dot near 73 on the dial is the setting point for the 3000 micromho scale.

c. The dot near 86 is the point for the 6000 micromho scale.

d. The dot near 92 is the point for the 15,000 micromho scale.

e. When reading micromhos the RED and GREEN sectors of the meter scale are disregarded.

f. When testing for mutual conductance the push switch P4--Gm is pressed. Gm is the symbol for mutual conductance.

CAUTION: Do not press P4 when testing rectifier tubes.

g. Tubes having more than one section, such as the 6J6, require different dial settings for each section.

7. RECTIFIER TUBE TEST. - Rectifier tubes, including diode tubes and diode sections of multiple element tubes, having no mutual conductance are tested for emission only.

a. The push switch P1 is used when testing detector diodes. It applies a low voltage which will not injure the delicate cathode. Good diodes will cause the pointer of the meter to move above the pointer marked DIODES O.K.

b. The push switch P2 is used when testing cold cathode rectifiers such as the 0Z4. This applies a voltage sufficiently high to ionize the tube and start conduction. Good tubes will read in the green (GOOD) sector of the meter scale.

c. The push switch P3 is used when testing ordinary rectifier tubes, such as the 5Y3. This applies a medium voltage which is best adapted to reveal defects in this type of tube. Good tubes will read in the green (GOOD) sector of the meter scale.

NOTE

On the data chart a star (★) following P1, P2 and P3 indicates that the ENGLISH setting only is used.

8. GAS TEST. - The push switches P5 and P6 are used to test an amplifier tube for gas content.

a. Set the English dial at 73.

b. The push switch P5 is pressed and held down while the BIAS dial is turned to cause the pointer of the meter to indicate 100 micromhos on the 0-3000 scale.

c. Hold down P5 and press P6.

d. If the tube contains gas the pointer of the meter will move UP the scale. If the pointer movement is not more than one division of the scale the gas content is satisfactory.

NOTE

With some tubes, such as the type 45, the micromho reading cannot be brought down to 100 by turning the BIAS dial. In such case turn the BIAS dial to 100 and test for gas.

e. Some tubes develop gas after being heated for a period of time. If a

tube is suspected, allow it to heat for a few minutes.

9. METER REVERSE. - Directly below the indicating meter is a switch marked REVERSE-NORMAL. With certain tubes, such as the 117N7, the meter when this switch is set on NORMAL will deflect backwards (to the left) when push switch P3 is pressed for rectifier test. In such case turn the meter switch to REVERSE which will cause the pointer of the meter to move up the scale. After the test has been made return the switch to NORMAL.

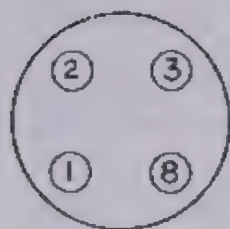
10. TOP CAPS. - There are two jacks in the upper center of the control panel marked GRID and PLATE. These are used when making connection to the top cap of the tube being tested. On the data chart in the NOTATIONS column opposite tube types having top caps is the notation CAP=G or CAP=P. G means that the top cap is connected to GRID jack and P that it is connected to the PLATE jack.

11. SOCKET NUMBERING. - In order to reduce selector set-up to a minimum, the socket contacts are numbered as shown on Plate 1 which shows the bottom views. The numerical values of the lettered dials as follows:

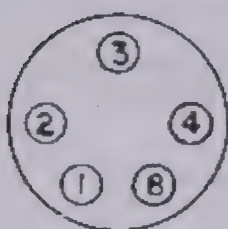
0	----	A	----	P
1	----	B	----	R
2	----	C	----	S
3	----	D	----	T
4	----	E	----	U
5	----	F	----	V
6	----	G	----	W
7	----	H	----	X
8	----	J	----	Y
9	----	K	----	Z

The letter I was omitted because of its resemblance to the figure 1. The letter Q was omitted because of its resemblance to the figure 0.

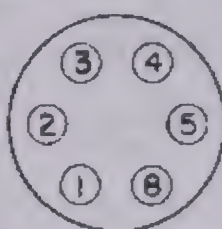
PILOT
LAMP
TEST



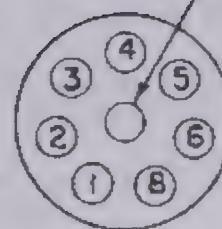
4 PIN



5 PIN



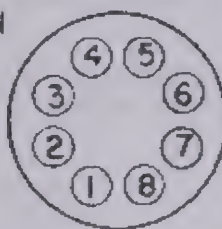
6 PIN



7 PIN
STANDARD



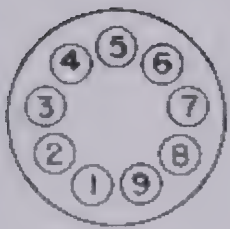
OCTAL



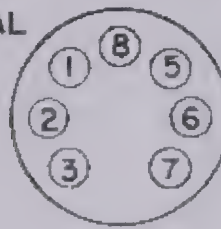
LOKTAL



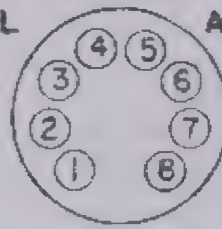
ACORN



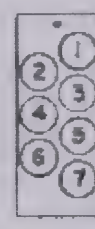
NOVAL



7 PIN
MINIATURE



CIRCULAR
SUB MINIATURE



IN LINE
SUB MINIATURE

The center of the large 7-pin socket is used to check pilot lamps. Set the filament selector switches on JR. Set the filament voltage switch to the proper voltage for the lamp being tested.

12. SPECIAL NOTES.— Power line voltage varies with different localities. It may also vary with different hours of the day.

While a national survey indicates that the average voltage for the USA is about 117 volts, it does not mean that every locality maintains a constant voltage at that level.

Occasionally we have had the complaint that a used tube will test GOOD, but will not work in the radio receiver; but when a NEW tube is substituted, the receiver will operate correctly. The answer is this: Tubes are built to specifications. Our tube testers are designed to test tubes in conformity with these specifications.

The used tube that would not per-

form in a certain receiver was not receiving its specified filament voltage. The new tube performed because of its initial reserve capacity. The used tube would have performed if it had received its specified filament voltage.

Tube failure frequently occurs in A.C.--D.C. sets where several tubes are connected with their heaters or filaments in series. Sometimes, even though the power line voltage is normal, a series tube with abnormally high filament resistance will rob its companion tube of its normal filament voltage. The robbed tube apparently fails; but when tested under specified conditions, the tube will test GOOD.

13. The versatility of the Hickok Dynamic Mutual Conductance Tube Tester makes possible a special test that will reveal a tube's ability to perform under adverse conditions as mentioned above. This is possible because the tester measures mutual conductance instead of emission.

a. Measure the mutual conductance in the ordinary way.

b. Press P4 and adjust the ENGLISH dial until the tube reads in the GREEN (GOOD) sector at 2000 on the 0-3000 scale.

c. While holding everything else constant, reduce the FILAMENT voltage and note new reading.

d. If the meter still reads in the GREEN (GOOD) sector, the tube has a large life reserve and will perform satisfactorily.

e. The filament voltage reductions to be made are shown in the following table:

NORMAL FIL. VOLTS	REDUCE TO
1.5	1.1
2.0	1.5
2.5	2.0
3.0	2.5
5.0	4.3
6.3	5.0
7.5	6.3
10.0	7.5
12.6	10.0
35.0	25.0
50.0	35.0

14. CONTINUITY TEST. - The Model 600 Tube Tester can be used to test for continuity through resistances up to 200,000 ohms.

a. Set SHORTS switch on position 4.

b. Connect two leads having prods and pin tips to the jacks marked PLATE and GRID.

c. Touch the prods to the terminals through which continuity is to be determined.

d. The neon lamp will glow if circuit is continuous.

15. FILAMENT AND HEATER CONTINUITY.

1. Turn tester on.
2. Set selectors as per chart for tube to be tested.
3. Set FILAMENT switch on HLST instead of voltage indicated on chart.
4. Set SHORT TEST switch on position 1.
5. Place tube in proper socket.

If the neon lamp glows, the filament is good and a complete test should then be made on the tube, by setting FILAMENT switch on the proper tap, and while the tube heats, rotate the SHORT TEST switch several times thru all positions. If no shorts are indicated, set the switch in TUBE TEST position and proceed to test the tube as per chart.

If the neon lamp does not glow, filament is open and further test is unnecessary. Certain tubes such as the 35Z5-50Z7, etc. with tapped filaments have special continuity test settings, see roll chart.

TO TEST BALLAST TUBES

1. Turn Tester on.
2. Set filament switch to BLST.
3. Set SHORT TEST switch on 1.
4. Set first selector switch (lettered A to K) to letter shown in column marked (first selector) -- Set all numbered selectors on zero --
5. ROTATE second selector switch (lettered P to Z) from P to Z. NEON LAMP SHOULD LIGHT IN POSITIONS NOTED.

TUBE TYPE	First Selector	Neon lamp should light in these positions.						
1A1-1B1-1C1-1E1-1F1-1G1-1J1-1K1-1L1-1M1-1P1-1Q1-1R1G-1S1G-1T1G-1U1G-1V1-1Y1-1Z1-2	J	R						
2UR224	J			T				X
2LR212	H	R	S		U			

PARTS LIST FOR MODEL 600 TUBE TESTER

NOTE: There is a minimum charge of \$1.50 for any parts order.

HICKOK CODE NO.	NAME AND DESCRIPTION	REF. SYMBOL OR FUNCTION
2490-156	BOOKLET, Instruction	
2920-7	BUTTON, Push: black	
2920-8	BUTTON, Push: red	
3095-41	CAPACITOR: 2700 mmf, 500 V, 10%, mica	C2
3105-24	CAPACITOR: .1 mfd, 400 V, paper	C1
3200-44	CHART, Roll: tube data	
4160-67	DIAL Ass'y: Bias	
4160-73	DIAL Ass'y: English	
10300-1	JACK, Pin: red, Eby #52	
10300-2	JACK, Pin: black, Eby #52	
11500-11	KNOB, Ass'y: Hickok bar knob with pointer	
12270-1	LAMP: neon glow, 1/4 W, 115 V.	
12270-2	LAMP: auto, Tung-Sol #81, bayonet type	
12270-12	LAMP: #47 G.E., 6-8 V, .15 amp, miniature bayonet base	PILOT
12270-17	LAMP: #49 pilot, .06 mls, 2V, bayonet	
12450-145	LEAD, Ass'y:	
12450-180	LEAD, Ass'y: Grid cap, Amphenol #63-1W	
12450-207	LEAD, Ass'y:	
480-781	METER: DC milliammeter, S48 black, flush square	
16925-90	POTENTIOMETER: dual, 150-150 ohms, linear, wire wound, Mellory #MM15CP	R4, R5
16927-5	POTENTIOMETER, Ass'y: 3000 ohms	BIAS, R7
18410-472	RESISTOR: 47 ohms, 1/2 W, 10%, fixed, comp.	R20, R21, R22
18413-271	RESISTOR: 27,000 ohms, 1/2 W, 5%, fixed, comp.	R15
18413-471	RESISTOR: 47,000 ohms, 1/2 W, 5%, fixed, comp.	R23
18414-182	RESISTOR: 180,000 ohms, 1/2 W, 10%, fixed, comp.	R8
18414-332	RESISTOR: 330,000 ohms, 1/2 W, 10%, fixed, comp.	R10
18415-102	RESISTOR: 1 meg, 1/2 W, 10%, fixed, comp.	R17
18422-122	RESISTOR: 1200 ohms, 1W, 10%, fixed, composition	R2
18423-151	RESISTOR: 15,000 ohms, 1W, 5%, fixed, comp.	R3, R23
18550-89	RESISTOR: 215,000 ohms, 1W, 1%, Wilkor CPl	R24
18575-12	RESISTOR: 1800 ohms, 10 W, 10%, fixed, vitreous enamel	R1
18575-19	RESISTOR: 100 ohms, 10%, vitreous enamel, center-tapped	R12, R13
18575-89	RESISTOR: 8500 ohms, 10W, 10%, wire wound	R6
18670-406	RESISTOR, Spool: medium, 15 ohms	R9
18670-418	RESISTOR, Spool: medium, 150 ohms	R14
18750-2	RHEOSTAT: 200 ohms, 25 W, Mod. D, Ohmite #2876-3SC	R16
19350-1	SOCKET: small bayonet, Drake #614L-CH-LT	
19350-2	SOCKET: candelabra, Drake #414-14L-LT	
19350-62	SOCKET: 9-pin, black, Cinch Mfg.	
19350-76	SOCKET: 7-pin miniature, Amphenol #147-170-24	
19350-77	SOCKET: 8-pin octal, black, Amphenol #77-MIP-8	
19350-78	SOCKET: 4-pin, black, Amphenol #77-MIP-4	
19350-93	SOCKET: 4-pin, black, Amphenol #78S-4	
19350-94	SOCKET: 5-pin, Amphenol #78S-5	
19350-95	SOCKET: 6-pin, Amphenol #78S-6	
19350-96	SOCKET: 7-pin, Amphenol #76-7CD	

Prices will be furnished upon request.

PARTS LIST FOR MODEL 600 TUBE TESTER

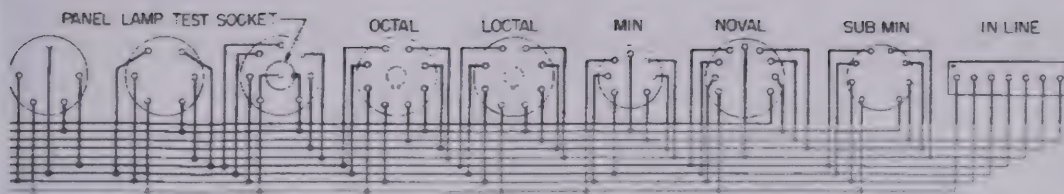
NOTE: There is a minimum charge of \$1.50 for any parts order.

HICKOK CODE NO.	NAME AND DESCRIPTION	REF. SYMBOL OR FUNCTION
19350-97	SOCKET: 8-pin loctal, Amphenol #78-81	
19350-99	SOCKET: 8-pin octal, Amphenol #788-8	
19350-101	SOCKET: sub-miniature, Cinch #EXP-8694	
19350-112	SOCKET, Ass'y: Drake #40	PILOT
19350-119	SOCKET: sub-miniature, 7-contact, Cinch #EXP-6736-B1	IN-LINE
19910-54	SWITCH: Push button, 7-gang, Oak #43927-130	F1-F7
19911-7	SWITCH: Snap DPDT, Oak #16743-78	METER REVERSING
19911-9	SWITCH: Toggle, SPST, A.R. & H. #20994-DA, with bat handle	
19912-202	SWITCH: Rotary, 1 section, 2 pole, 20 position	OFF-ON
19912-203	SWITCH: Rotary, 5 section, 6 position, Oak Type F	FILAMENT
19912-204	SWITCH: Rotary, 5 section, 10 position, Oak Type F	SHORT TEST
19912-205	SWITCH: Rotary, 1 section, 10 position, Oak Type F	SELECTORS
		CATHODE-
		SUPPRESSOR
20800-1Q1	TRANSFORMER: Power	
20875-6	TUBE: 5Y3GT/G	RECTIFIER
20875-28	TUBE: 83	RECTIFIER

NOTE

In ordering parts or materials for this instrument, the serial number must be given in order to identify properly the material required.

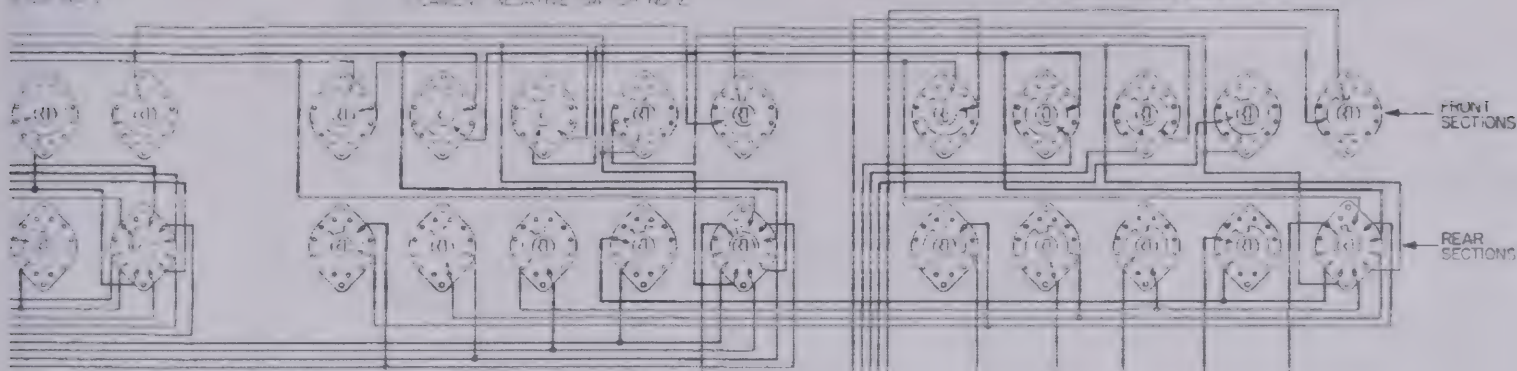
Prices will be furnished upon request.



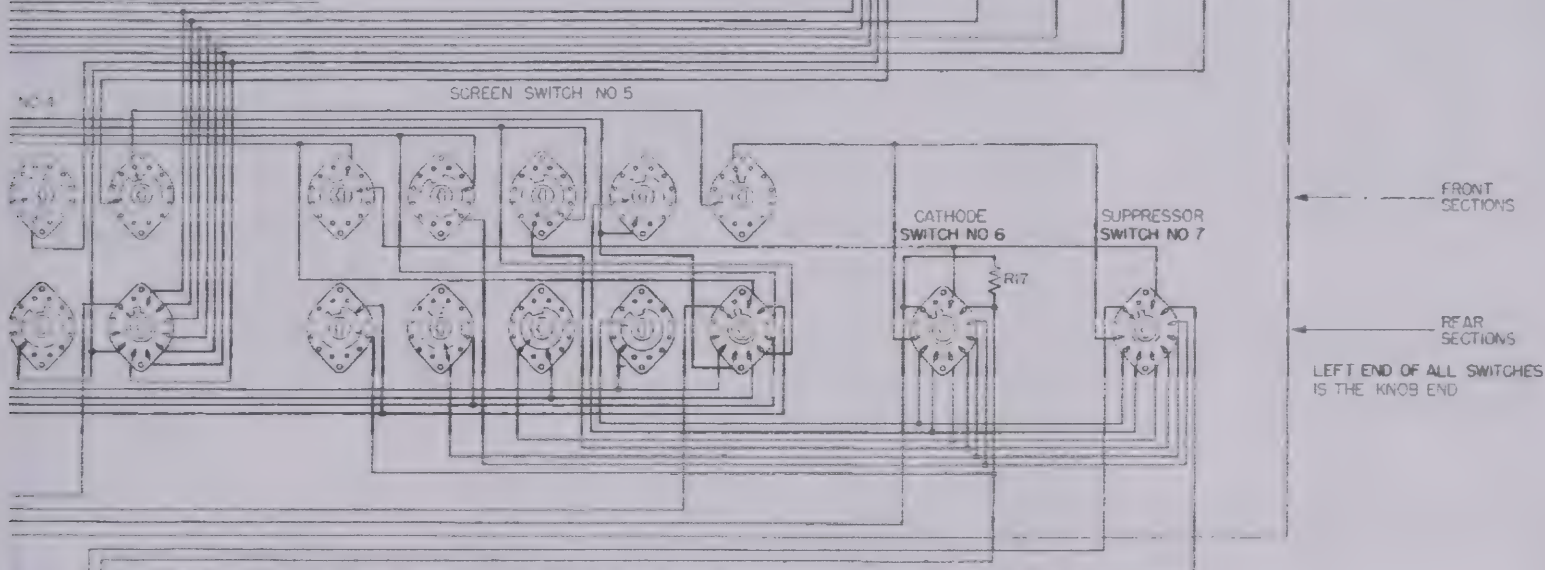
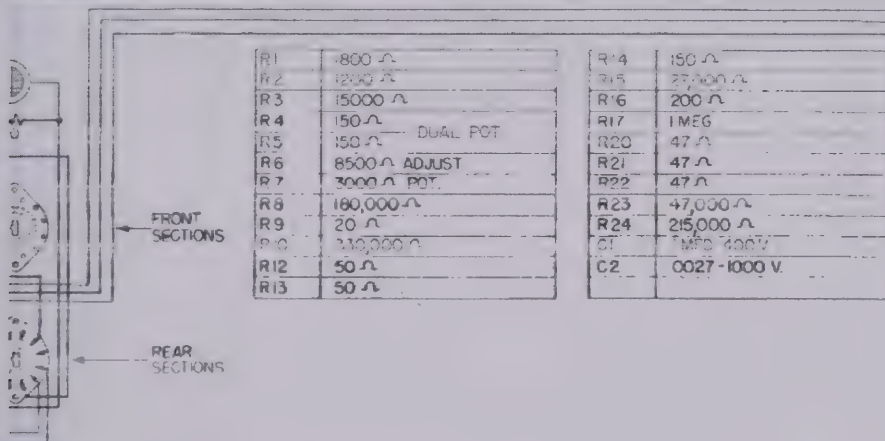
WICH KNOB 1

FILAMENT RELAY SWITCH NO 2

GRID SWITCH NO 3



PARTIAL SWITCHES SHOWN IN POSITION 1

LEFT END OF ALL SWITCHES
IS THE KNOB END

R1	800 Ω
R2	1200 Ω
R3	15000 Ω
R4	150 Ω
R5	150 Ω DUAL POT
R6	8500 Ω ADJUST
R7	3000 Ω POT
R8	180,000 Ω
R9	20 Ω
R10	215,000 Ω
R12	50 Ω
R13	50 Ω

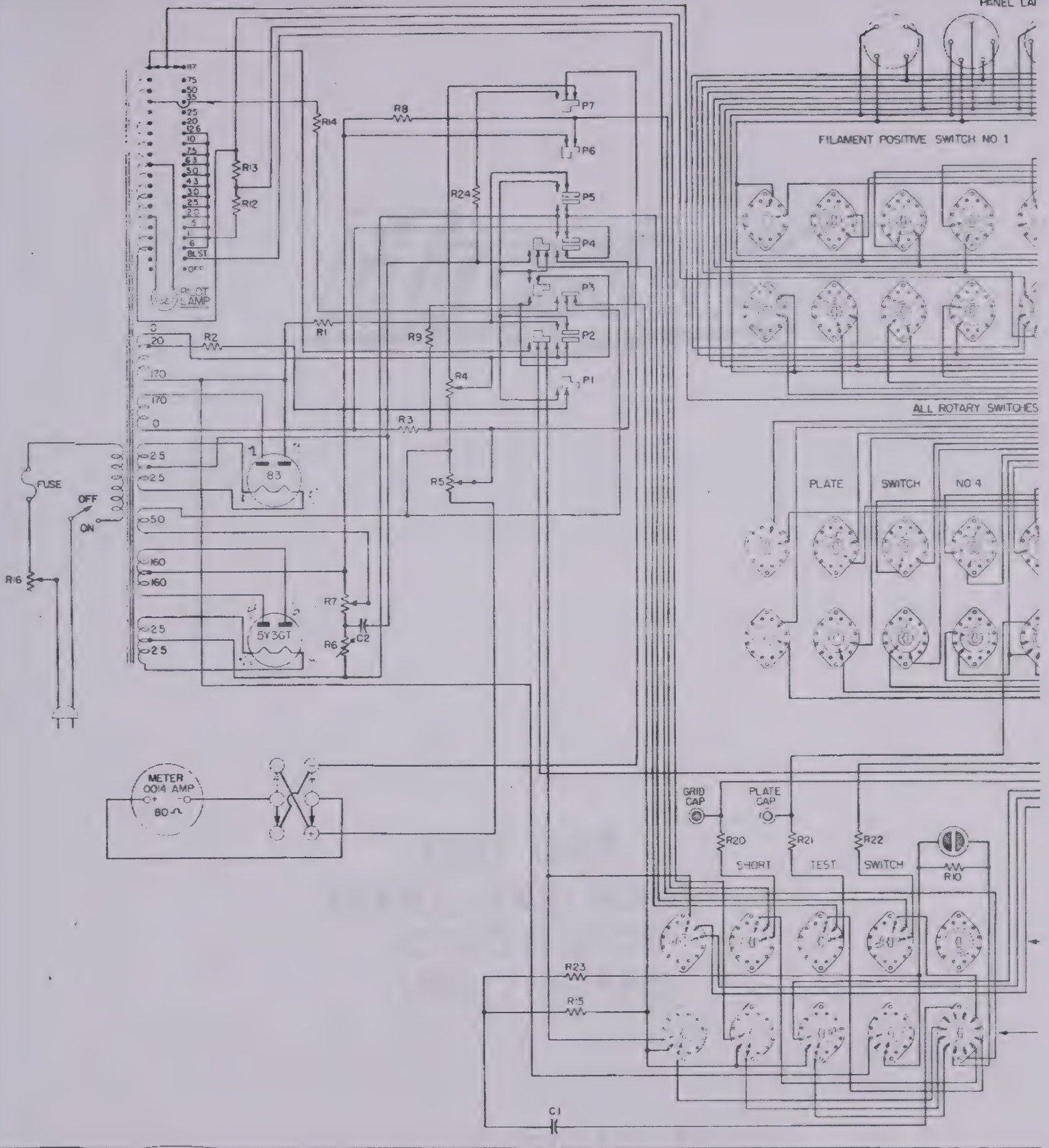
R14	150 Ω
R15	27,000 Ω
R16	200 Ω
R17	1MEG
R20	47 Ω
R21	47 Ω
R22	47 Ω
R23	47,000 Ω
R24	215,000 Ω
CT	5MPD 400V
C2	0027-1000 V

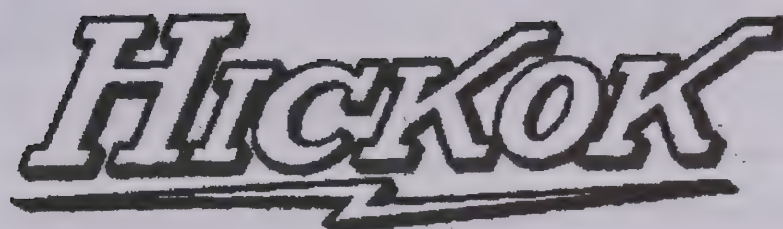
SCHEMATIC MODEL 600 TUBE TESTER

MADE BY
THE HICKOK ELECTRICAL INSTRUMENT COMPANY
CLEVELAND, OHIO

SCHEMATIC WIRING DIAGRAM

USED ON MODEL 600 TUBE TESTER	DATE 8-24-50
DRAWN (CHECKED)	APPROVED
JRB	JRB
DRAWING NUMBER	756W





TEST DATA
MODEL 6000, 6000A
6000B & 6005
TUBE TESTERS

THE HICKOK ELECTRICAL INSTRUMENT CO.
13514 DUPONT AVENUE • CLEVELAND, OHIO 44108
PHONE—(216) 541-8060 TWX—810-421-8285
PRINTED IN U.S.A.

TUBE TYPE	FIL.	SELECTORS	BASE	SHUNT	FUNCT. AND MUT. COMP.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BASE	SHUNT	FUNCT. AND MUT. COMP.	NOTATIONS
1A3	1.4	HR-0X00-0	0	0	C	Diode OK ABOVE INDICES OF	{2DS4† Model 6000 A	2.0	DR-4208-0	22	79	A	2600 SEE ADAPTER 44A NOTE 1
1A02†	1.4	B3-0X00-0	0	42	F	---	2DS4	2.0	13-4208-0	22	79	A	2600
1A04	1.1	DV-4128-0	17	62	B	1400	2DV4†	2.0	13-6107-0	27	88	A	4600
1A04	1.1	DV-4120-0	27	48	B	1000	2DX4	2.6	ET-2106-0	29	86	A	3900
1A04	1.1	FT-4120-0	17	0	B	500	2EA5	2.5	ET-1562-0	11	86	A	4000
1A04	1.1	FT-4120-0	17	0	B	600	{2EG4† Model 6000A	2.0	DR-4208-0	22	72	A	2600
1A02	1.1	EV-0900-0	0	81	F	---	2EG4	2.0	13-4208-0	22	72	A	2600
1A02	1.1	CX-0X00-0	0	86	F	---	2EN5	2.0	ET-0705-8	0	80	C	---
1B3	1.1	HS-0X00-0	0	80	F	---	2EN5	2.0	ET-0205-6	0	80	C	---
1B02	1.1	BV-0X00-0	0	73	F	---	2ER5	2.0	ET-2567-0	10	89	A	5000
1B02	1.1	DW-0X00-0	0	73	F	---	2ES5	2.5	ET-2501-0	10	87	A	4600
1B02	1.4	BS-0X00-0	0	85	F	---	2EV5	2.5	ET-1562-0	21	87	A	4000
1B02	1.4	BS-0X00-0	0	80	F	---	2FH5	2.5	ET-2507-0	14	87	A	4600
1B02†	1.1	B3-0X00-0	0	42	F	---	2FQ5	2.5	ET-2507-6	19	89	A	4500
1D03	1.1	DY-0X00-0	0	42	F	---	2FQ5A	2.5	ET-1567-0	10	85	A	3600
1D-K29	1.1	BS-0X00-0	0	0	D	---	2FS6	2.5	ET-1567-2	12	85	A	3800
103	1.1	HS-0X00-0	0	80	F	---	2GK5	2.5	ET-2507-6	19	89	A	5200
1H2	1.4	BS-0X00-0	0	76	F	---	2GU5	2.5	ET-1562-0	13	89	A	5800
1K3	1.1	HS-0X00-0	0	42	F	---	2HW5	2.5	ET-2105-0	20	86	A	5000
1N2	1.1	HS-0X00-0	0	80	F	---	2HK5	2.5	ET-1507-6	19	88	A	4600
1R5	1.4	BX-4308-2	55	63	A	1100	2HM6	2.5	ET-1507-6	20	87	A	4400
TR-K23	1.4	ES-0X00-0	0	86	F	---	2HV5	2.5	ET-1507-6	20	87	A	4400
1S2A	1.4	ES-0X00-0	0	85	F	---	2T4	2.5	ET-2108-0	36	88	A	5000
1S4	1.4	BX-3240-0	29	85	B	1RM1	3A2	3.0	BS-0X00-0	0	85	F	---
1S5	1.4	BX-3240-0	11	0	B	500	3A3	3.0	HS-0X00-0	0	85	F	---
1S5	1.4	BX-3240-0	11	0	B	900	3AF4	3.0	ET-2105-0	36	85	F	4000
1U4	1.4	BX-6230-0	14	42	A	---	3AL5	3.0	ET-0701-6	0	78	F	---
1V2	1.1	EV-0900-0	0	78	B	400	3AL6	3.0	ET-0205-6	0	84	F	---
1W6	1.1	EV-2780-0	11	73	F	OK above 250 OK ABOVE INDICES OF	3AT2†	3.0	ET-1567-2	11	78	F	2300
2AF4	2.5	BS-0X00-0	0	80	F	4000	3AU6	3.0	ET-1702-5	12	58	F	1250
2AH2†	2.5	B3-0X00-0	0	85	F	---	3AV6	3.0	ET-0602-0	0	26	F	---
2AS2†	2.5	B3-0X00-0	0	79	F	---	3AV8	3.0	ET-0502-0	0	87	F	---
2AV2	2.0	EV-0900-0	0	88	F	---	3AW2†	3.0	HS-0X00-0	0	75	F	---
2AZ2	2.0	BS-0X00-0	0	90	F	---	3AW3	3.0	HS-0X00-0	0	75	F	---
2BA2	2.0	EV-0100-0	0	78	F	---	3B2	3.0	HS-0X00-0	0	70	F	---
2BJ2	2.5	BS-0X00-0	0	88	F	5600	3B4	2.6	EV-3710-0	50	89	F	1700
2BN4	2.0	ET-2501-0	11	86	A	3200	3BA8	3.0	ET-1567-2	11	72	F	1900
2BU2†	2.5	B3-0X00-0	0	85	F	---	3BC5	3.0	ET-1562-0	11	78	F	2500
2C51	6.3	KR-7808-2	16	86	A	4000	3BE6	3.0	ET-7562-1	0	35	B	800
2C51	6.3	KR-3402-8	16	86	A	4000	3BE6	3.0	ET-1602-7	20	90	B	6500
2CN3A	2.0	HS-0X00-0	0	87	F	---	3BL2†	3.0	B3-0X00-0	0	85	F	---
2CW4†	2.0	DR-4208-0	23	79	A	2600	3BM2†	3.0	B3-0X00-0	0	86	F	---
2CW4	2.0	13-4208-0	23	79	A	2600	3BN2†	3.0	B3-0X00-0	0	88	F	---
2CY5	2.6	ET-1662-0	11	81	B	3000	3BN4	3.0	ET-2501-0	19	68	F	9000
2D21	6.3	ET-1602-5	4	94	F	---	3BN4A	3.0	ET-2501-0	19	66	F	3200
2DF4	2.7	EV-8310-0	21	88	A	---							

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
3BN6	3.0	ET-2781-6	6	27	B	Limiter Grid	3HQ5	3.0	ET-1507-6	20	87	A	4400
3BN6	3.0	ET-6751-2	13	0	B	Quadrature Grid	3JG6	3.0	EV-2781-9	11	88	A	5000
3B92	3.0	B3-0X00-0	0	85	B	OR ABOVE BLODES OR	3JG6	3.0	EV-2781-9	10	83	A	3200
3BT2	3.0	C3-0X00-0	0	37	F	OR ABOVE BLODES OR	3JH6	3.0	ET-1502-7	11	84	A	3700
3BU8	3.0	EV-7821-9	11	30	F	Pent. No. 1	3KFB	3.0	EV-7821-9	10	17	A	700
3BU8	3.0	EV-7321-6	11	30	F	Pent. No. 2	3KFB	3.0	EV-7321-6	19	17	A	700
3BW2	3.0	B3-0X00-0	0	88	F	OR ABOVE BLODES OR	3KT6	3.0	EV-2781-9	15	81	A	2350
3BX6	3.0	EV-2781-9	10	86	A	Grid No. 1	3V4	3.0	HR-6230-0	35	68	A	1850
3BY6	3.0	ET-1562-7	12	58	A	Grid No. 3	4AU6	4.3	ET-1567-2	11	76	A	2300
3BY6	3.0	ET-7562-1	16	0	A	Grid No. 3	4AV5	4.3	ET-1702-5	12	58	A	1250
3BZ6	3.0	ET-1562-7	11	81	A		4AV5	4.3	ET-0602-0	0	26	C	—
3C4	2.5	BX-6230-0	41	56	A	OR ABOVE BLODES OR	4AV6	4.3	ET-0502-0	0	28	C	—
3CA3	3.0	HS-0X00-0	0	83	F		4BC5	4.3	ET-1562-0	11	78	A	2500
3CB6	3.0	ET-1562-7	11	82	A	OR ABOVE BLODES OR	4BC8	4.3	EV-7608-9	16	90	A	6200
3CE5	3.0	ET-1562-0	11	81	A	OR ABOVE BLODES OR	4BN6	4.3	EV-2103-9	16	90	A	6200
3CN3A	3.0	HS-0X00-0	0	87	F	OR ABOVE BLODES OR	4BN6	4.3	ET-2751-6	0	27	B	700
3CS6	3.0	ET-1562-7	11	15	B	OR ABOVE BLODES OR	4BQ7A	4.3	ET-6751-2	13	0	B	500
3CS6	3.0	ET-7652-1	0	31	B	OR ABOVE BLODES OR	4BQ7A	4.3	EV-7608-9	13	90	A	6400
3CU3	3.0	HS-0X00-0	0	85	F	OR ABOVE BLODES OR	4BQ7A	4.3	EV-2103-9	13	90	A	6400
3CV3	3.0	HS-0X00-0	0	84	F	OR ABOVE BLODES OR	4BS8	4.3	EV-7608-9	19	87	A	4500
3CY3	3.0	DY-0X00-0	0	87	F	OR ABOVE BLODES OR	4BS8	4.3	EV-2103-9	19	87	A	4500
3CY3	3.0	HS-0X00-0	0	75	F	OR ABOVE BLODES OR	4BU8	4.3	EV-7821-9	11	30	F	—
3CY6	3.0	ET-1562-0	11	81	F	OR ABOVE BLODES OR	4BU8	4.3	EV-7321-6	11	30	F	—
3CZ3	3.0	HS-0X00-0	0	85	F	OR ABOVE BLODES OR	4BZ6	4.3	ET-1562-7	11	81	B	3000
3DA3	3.0	DY-0X00-0	0	87	F	OR ABOVE BLODES OR	4BZ7	4.3	EV-7608-9	16	87	A	4500
3DB3	3.0	HS-0X00-0	0	75	F	OR ABOVE BLODES OR	4BZ7	4.3	EV-2103-9	16	87	A	4500
3DC3	3.0	HS-0X00-0	0	85	F	OR ABOVE BLODES OR	4C86	4.3	ET-1562-7	11	82	A	3300
3DF3	3.0	DY-0X00-0	0	87	F	OR ABOVE BLODES OR	4C88	4.3	ET-1562-7	11	15	B	600
3DQ4	3.0	DR-0700-0	0	89	D	Plate No. 1	4C88	4.3	ET-7562-1	0	31	B	750
3DG4	3.0	DR-0500-0	0	89	D	Plate No. 2	4C88	4.3	ET-1562-0	11	81	B	3000
3DH3	3.0	DY-0X00-0	0	88	F	OR ABOVE BLODES OR	4DE6	4.3	ET-1562-7	11	81	A	3000
3DJ3	3.0	HS-0X00-0	0	88	F	OR ABOVE BLODES OR	4DK5	4.3	ET-1562-7	12	83	A	3300
3DK6	3.0	ET-1562-7	12	83	F	OR ABOVE BLODES OR	4DT6	4.3	ET-1562-7	23	15	A	500
3DR3	3.0	DS-0X00-0	0	88	F	OR ABOVE BLODES OR	4DT6	4.3	ET-7562-1	15	0	B	500
3DS3	3.0	DS-0X00-0	0	88	F	OR ABOVE BLODES OR	4EH7	4.3	EV-2781-9	15	87	A	3300
3DT8	3.0	ET-1562-7	23	15	A	Grid No. 1	4EJ7	4.3	EV-2781-9	10	87	A	4000
3DT6	3.0	ET-7562-1	16	0	B	Grid No. 3	4ES8	4.3	EV-7608-0	22	92	A	7500
3DX4	3.0	ET-2105-0	28	85	A		4ES8	4.3	EV-2103-0	22	92	A	7500
3DZ4	3.0	ET-2105-0	35	87	A		4EW6	4.3	ET-1562-7	11	84	A	3700
3EA5	3.0	ET-1562-0	11	88	A		4GK5	4.3	ET-2507-6	19	87	A	5200
3EH7	3.0	EV-2781-9	15	87	A		4GM6	4.3	ET-1562-7	10	86	A	5000
3EJ7	3.0	EV-2781-9	10	87	A		4GS8	4.3	EV-7821-9	0	38	F	—
3ER5	3.0	ET-2567-0	10	89	A		4GS8	4.3	EV-7321-6	0	38	F	—
3EV5	3.0	ET-1562-0	21	87	A		4GX7	4.3	EV-2671-0	11	84	A	3200
3FH5	3.0	ET-2507-0	14	87	A		4GX7	4.3	EV-8801-0	18	89	A	4800
3F85	3.0	ET-1567-0	10	85	A		4GZ5	4.3	ET-2761-0	20	86	A	4000
3GK5	3.0	ET-2607-6	19	89	A		4HA5	4.3	ET-1507-6	20	87	A	4800
3GW5	3.0	ET-2105-0	20	88	A		4HA7	4.3	B3-9X04-0	20	76	A	2500
3HA6	2.5	ET-1507-6	20	87	A		4HA7	4.3	B3-4203-0	16	16	A	750
3HK5	3.0	ET-1502-0	19	88	A								
3HM5	3.0	ET-1507-6	20	87	A								

PENT. NO. 1
 PENT. NO. 2
 TRIODE SECT.
 DIODE NO. 1
 DIODE NO. 2
 TRIODE NO. 1
 TRIODE NO. 2
 GRID NO. 1
 GRID NO. 2
 GRID NO. 3
 TRIODE NO. 1
 TRIODE NO. 2
 TRIODE NO. 3
 PENT. SECT.
 TRIODE SECT.
 TRIODE NO. 1
 TRIODE NO. 2

TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
{4HC7}	4.3	B3-9804-0	12	84	A	3500	Triode No. 1	68Q7A	5.0	EV-7608-9	13	90	Triode No. 1
{4HC7}	4.3	B3-1203-0	19	27	A	700	Triode No. 2	58Q7A	5.0	EV-2103-9	13	90	Triode No. 2
{4HK5}	4.3	ET-1502-0	19	90	A	5900		6BR8	5.0	EV-9678-0	11	73	Pent. Sect.
{4HM5}	4.3	ET-1507-6	20	87	A	4600		6BR8	5.0	EV-1203-0	12	90	Triode Sect.
{4HM6}	4.3	EV-2781-9	11	87	A	4700		6BT8	5.0	EV-8678-0	19	75	Pent. Sect.
{4HQ5}	4.3	ET-1507-6	20	87	A	4400		6BT8	5.0	EV-0103-0	0	63	Diode No. 1
{4HS8}	4.3	EV-7821-9	10	15	A	800	Pent. No. 1	6BT8	5.0	EV-0203-0	0	63	Diode No. 2
{4HS8}	4.3	EV-7321-6	10	15	A	600	Pent. No. 2	6BW8	5.0	EV-6987-0	11	73	Pent. Sect.
{4HT6}	4.3	EV-2781-9	10	87	A	4600		6BW8	5.0	EV-0302-0	0	77	Diode No. 1
{4JC6}	4.3	EV-2781-9	10	89	A	5600		6BW8	5.0	EV-0102-0	0	77	Diode No. 2
{4JD6}	4.3	EV-2783-9	10	83	B	2600		50GB	5.0	EV-9678-0	12	81	Pent. Sect.
{4JH6}	4.3	ET-1562-7	11	84	A	3700		50GB	5.0	EV-1203-0	20	84	Triode Sect.
{4JK6}	4.3	ET-1562-7	10	86	A	4800		50LB	5.0	EV-9678-0	10	84	Tetrode Sect.
{4JL6}	4.3	ET-1562-7	16	85	A	4200		50LB	5.0	EV-1203-0	12	84	Triode Sect.
{4JW8}	4.3	EV-2367-0	17	87	A	2200	Pent. Sect.	50MB	5.0	EV-2673-0	11	81	Pent. Sect.
{4JW8}	4.3	EV-9108-0	19	66	A	1600	Triode Sect.	50MB	5.0	EV-9108-0	12	85	Triode Sect.
{4KE8}	4.3	EV-2637-0	11	86	A	3700	Pent. Sect.	50Q6	5.0	EV-2637-0	10	79	Triode Sect.
{4KE8}	4.3	EV-9108-0	20	87	A	4500	Triode Sect.	50Q6	5.0	EV-9108-0	11	87	Tetrode Sect.
{4KFB}	4.3	EV-7821-9	10	17	A	700	Pent. No. 1	50Z5	5.0	EV-3917-0	10	87	Triode Sect.
{4KT6}	4.3	EV-7321-6	10	17	A	700	Pent. No. 2	50H8	5.0	EV-9678-0	10	83	Pent. Sect.
{4LJ8}	4.3	EV-9678-0	15	81	A	2350	Pent. Sect.	50H8	5.0	EV-1203-0	15	78	Triode Sect.
{4LJ8}	4.3	EV-1203-0	15	75	A	2800	Triode Sect.	50J4	5.0	JS-0600-0	0	70	Plate No. 1
{4LU6}	4.3	ET-1562-7	11	86	A	4200		50J4	5.0	JS-0400-0	0	65	Plate No. 2
{4MK8}	4.3	EV-7821-9	11	30	A	2600	Pent. No. 1	5EA8	5.0	EV-2637-0	11	79	Pent. Sect.
{4MK8}	4.3	EV-7321-6	11	30	F	4200	Triode Sect.	5EA8	5.0	EV-9108-0	11	89	Triode Sect.
{5AM8}	5.0	EV-2691-9	11	79	A	2700	Pent. No. 2	5E58	5.0	EV-7808-0	22	92	Triode Sect.
{5AM8}	5.0	EV-0807-0	0	78	A	3000	Pent. Sect.	5E58	5.0	EV-2103-0	22	92	Triode No. 1
{5AN8}	5.0	EV-8678-1	11	81	A	3000	Diode Sect.	5E58	5.0	EV-7198-0	11	79	Triode No. 2
{5AN8}	5.0	EV-2173-6	24	83	A	3300	Pent. Sect.	5EU8	5.0	EV-2306-0	11	89	Pent. Sect.
{5AQ5}	5.0	ET-1562-0	11	88	A	4100	Triode Sect.	5EW6	5.0	ET-1562-7	11	84	Triode Sect.
{5AR4}	5.0	JS-0600-0	0	90	A	4100	Plate No. 1	5FG7	5.0	EV-9678-0	10	82	Pent. Sect.
{5AR4}	5.0	JS-0400-0	0	90	D	4100	Plate No. 2	5FG7	5.0	EV-1203-0	18	88	Triode Sect.
{5AS8}	5.0	EV-2913-7	11	81	A	3000	Pent. Sect.	5FV8	5.0	EV-9678-0	10	80	Pent. Sect.
{5AS8}	5.0	EV-0638-0	0	78	A	3000	Diode Sect.	5FV8	5.0	EV-1203-0	15	89	Triode Sect.
{5AT8}	5.0	EV-9673-6	12	81	A	3000	Pent. Sect.	5GH8	5.0	EV-2637-0	11	82	Pent. Sect.
{5AT8}	5.0	EV-1203-8	20	84	A	3500	Triode Sect.	5GH8	5.0	EV-9108-0	21	86	Triode Sect.
{5AU4}	7.5	JS-0600-0	0	83	A	4100	Plate No. 1	5GM6	5.0	ET-1562-7	10	85	Pent. Sect.
{5AU4}	7.5	JS-0400-0	0	75	D	4100	Plate No. 2	5GS7	5.0	EV-9678-0	10	85	Triode Sect.
{5AV8}	5.0	EV-6987-0	11	81	A	3000	Pent. Sect.	5GS7	5.0	EV-1203-0	31	85	Pent. Sect.
{5AV8}	5.0	EV-2301-0	24	83	A	3300	Triode Sect.	5GX6	5.0	ET-1562-7	12	67	Triode Sect.
{5B8}	5.0	EV-6987-1	11	81	A	3000	Pent. Sect.	5GX7	5.0	EV-2671-0	11	84	Triode No. 1
{5B8}	5.0	EV-2301-9	24	83	A	3300	Triode Sect.	5GX7	5.0	EV-9801-0	13	89	Triode No. 2
{5BC31}	5.0	BT-0900-0	0	74	D	4100	Triode Sect.	5HA7	5.0	B3-1203-0	20	76	Pent. Sect.
{5BC3}	5.0	BT-0900-0	0	82	D	4100	Triode Sect.	5HB7	5.0	B3-1203-0	15	16	Triode Sect.
{Model 6000}	A	No Adaptor Required.	Required.					5HC7	5.0	EV-2671-0	10	79	Pent. Sect.
{5BE8}	5.0	EV-8678-3	11	73	A	2000	Pent. Sect.	5HC7	5.0	B3-9804-0	12	84	Triode No. 1
{5BE8}	5.0	EV-1203-0	12	90	A	6200	Triode Sect.	5HG8	5.0	B3-M203-0	19	27	Triode No. 2
{5BK7A}	5.0	EV-7608-9	20	85	A	4000	Triode No. 1	5HG8	5.0	EV-2693-0	10	84	Pent. Sect.
{5BK7A}	5.0	EV-2103-9	20	85	A	4000	Triode No. 2	5HZ6	5.0	EV-6703-0	32	82	Triode Sect.

TUBE TYPE	FIL.	SELECTORS	BIAS	ENHMT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	ENHMT	FUNCT. AND MUT. COND.	NOTATIONS	
6J6	5.0	ET-5207-0	21	81	A	3000	6AB9†	6.3	FW-9781-0	15	81	A	3000	Triode No. 1 Triode No. 2
6J6	5.0	ET-6107-0	21	81	A	3000	6AB9	6.3	FW-3124-0	15	81	A	3000	Pent. Sect.
6J6	5.0	ET-1662-7	10	85	A	4800	6AC7	6.3	HS-4855-3	11	81	A	3000	Diode No. 1
6J6	5.0	ET-1592-7	16	85	A	4200	6AC9†	6.3	B3-9A18-7	10	87	A	4200	Diode No. 2
6JW8	5.0	EV-2637-0	17	87	A	2200	6AC9	6.3	B3-0304-0	0	85	C	—	Triode No. 1
6JW8	5.0	EV-9108-0	19	86	A	1600	6AC9	6.3	B3-0203-0	0	85	C	—	Triode No. 2
6JW8	5.0	EV-2637-0	10	79	A	2800	6AC10†	6.3	B3-9104-0	14	85	A	3700	Triode No. 3
6K8	5.0	EV-9108-0	19	89	A	3700	6AC10	6.3	B3-7506-0	14	85	A	3700	Triode No. 1
6K8	5.0	EV-2637-0	11	95	A	4500	6AC10	6.3	B3-A203-0	14	85	A	1900	Pent. No. 2
6K8	5.0	EV-9108-0	20	87	A	3200	6AD10†	6.3	B3-3762-6	17	82	A	3900	Pent. No. 1
6KZ8	5.0	EV-2673-0	12	82	A	3500	6AD10	6.3	B3-8AX9-0	0	86	D	4000	Pent. No. 2
6KZ8	5.0	EV-9108-0	22	84	A	2800	6AF3	6.3	EV-020X-0	0	86	A	4000	Pent. No. 1
6LJ8	5.0	EV-9678-0	15	75	A	2500	6AF3	6.3	ET-2105-0	36	85	A	5000	Pent. No. 2
6LJ8	5.0	EV-1203-0	24	75	A	4000	6AF4	6.3	FW-8X97-0	13	85	A	5000	Pent. No. 2
6MB8	5.0	EV-9678-0	8	84	A	4800	6AF4	6.3	FW-1432-0	13	83	A	3300	Pent. No. 2
6MB8	5.0	EV-1203-0	13	88	A	4800	6AF9	6.3	B3-A2X9-0	10	88	A	4900	Pent. Sect.
6MQ8	5.0	EV-2637-0	15	80	A	3000	6AF11†	6.3	B3-6805-0	18	77	A	2400	Triode No. 1
6MQ8	5.0	EV-9108-0	20	83	A	3300	6AF11	6.3	B3-3407-0	10	80	A	2800	Triode No. 2
6R4	5.0	JS-0800-0	0	45	D	—	6AG5	6.3	ET-1582-0	11	78	A	2500	Pent. Sect.
6R4	5.0	JS-0400-0	0	35	D	—	6AG7	6.3	HS-4865-1	11	88	A	5000	Triode No. 2
6R8	5.0	EV-0907-0	11	56	A	1200	6AG9†	6.3	B3-A2X9-4	19	78	A	2500	Pent. Sect.
6R8	5.0	EV-0607-0	0	77	C	—	6AG9	6.3	B3-5705-0	14	87	A	4800	Triode No. 1
6R8	5.0	EV-0203-0	0	77	C	—	6AG9	6.3	B3-8709-0	16	86	A	4000	Triode No. 2
6R8	5.0	EV-0107-0	0	77	C	—	6AG11†	6.3	B3-5604-0	16	86	A	4000	Diode No. 1
6U4G	5.0	JS-0600-0	0	45	D	—	6AG11	6.3	B3-0304-0	0	80	C	—	Diode No. 2
6U4G	5.0	JS-0400-0	0	35	D	—	6AG11	6.3	B3-0302-0	0	80	C	—	Pentode Sect.
6U4G	5.0	JS-0600-0	0	70	D	—	6AG11	6.3	B3-5A87-9	10	87	A	5200	Triode Sect.
6U4G	5.0	JS-0400-0	0	65	D	—	6AG11	6.3	B3-2304-0	27	77	A	2350	Triode Sect.
6U8	5.0	EV-2637-0	11	73	A	2800	6AH9†	6.3	ET-1582-0	24	65	A	2100	Pent. Sect.
6U8	5.0	EV-9108-0	12	90	A	6200	6AK5	6.3	ET-1567-2	29	74	A	4150	Triode No. 1
6U8	5.0	FW-3782-4	10	83	A	3300	6AK6	6.3	B3-8597-0	30	83	A	2400	Triode No. 2
6U9†	6.3	FW-1901-0	29	81	A	3000	6AK9†	6.3	B3-3207-0	26	59	A	1750	Triode No. 1
6U9	6.3	JS-0800-4	0	80	D	—	6AK9	6.3	B3-8X04-0	14	85	A	4500	Triode No. 2
6V3	6.3	JS-0400-6	0	70	D	—	6AK9	6.3	B3-7506-0	14	85	A	4500	Triode No. 3
6V3	5.0	JS-0600-0	0	85	D	—	6AK10†	6.3	B3-A203-0	14	85	A	4500	Diode No. 1
6V4	5.0	JS-0400-0	0	85	D	—	6AK10	6.3	EV-090X-0	0	78	D	—	Diode No. 2
6V4	5.0	HS-5348-0	13	85	A	4100	6AL3	6.3	ET-0701-6	0	78	D	—	Pent. Sect.
6V8	5.0	FW-3741-2	10	48	B	1000	6AL5	6.3	ET-0205-6	0	78	D	—	Triode Sect.
6V8†	5.0	FW-8X08-0	22	81	A	3000	6AL5	6.3	B3-A2X9-4	5	91	A	9000	Triode Sect.
6V8	5.0	EV-7988-1	12	81	A	3000	6AL9†	6.3	B3-5706-0	9	88	A	6300	Pent. Sect.
6X8	5.0	EV-2308-1	20	84	A	3500	6AL9	6.3	B3-8AX9-0	14	87	A	4300	Pent. No. 1
6X8	5.0	EV-2308-1	20	84	A	3600	6AL11†	6.3	B3-3672-4	20	21	A	620	Pent. Sect.
6X9†	6.3	FW-3782-4	10	84	A	3600	6AL11	6.3	EV-2631-9	11	79	A	2700	Diode Sect.
6X9	6.3	FW-1901-0	12	81	A	3000	6AM8	6.3	EV-0807-0	0	78	C	—	Diode Sect.
6Y3	6.0	JS-0600-0	0	22	D	—	6AM8	6.3	ET-2105-0	13	89	C	—	Diode No. 2
6Y3	6.0	JS-0400-0	0	15	D	—	6AN4	6.3	ET-1567-0	13	89	C	—	Pent. Sect.
6Y3	6.0	JS-0400-0	0	15	D	—	6AN5	6.3	ET-8679-1	11	81	A	3000	Triode Sect.
6AB4	6.3	ET-6107-0	10	85	A	4000	6AN8	6.3	EV-2173-6	24	83	A	3300	Triode Sect.

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	
6AQ5	6.3	ET-1562-0	11	86	A	4100	6BA8	6.3	EV-7986-0	11	89	A	5000	Pent. Sect.
6AR11†	6.3	B3-189A-7	10	81	A	2700	6BA8	6.3	EV-2301-0	30	79	A	2700	Triode Sect.
6AR11	6.3	B3-5238-4	10	81	A	2700	6BA11†	6.3	B3-4638-7	10	15	A	600	Pent. No. 1
6AS8	6.3	ET-1562-7	11	48	B	1000	6BA11	6.3	B3-4238-5	10	15	A	600	Pent. No. 2
6AS7	7.5	HY-4506-2	100	79	A	2500	6BA11	6.3	B3-940X-0	30	62	A	1600	Triode Sect.
6AS7	7.5	HY-1203-5	100	79	A	2500	6BC4	6.3	EV-2106-0	12	91	A	7000	
6AS8	6.3	EV-2913-7	11	81	A	3000	6BC5	6.3	ET-1562-0	11	78	A	2500	
6AS8	6.3	EV-0608-0	0	78	A	6000	6BC7	6.3	EV-0809-3	0	80	C		Diode No. 1
6AS11†	6.3	B3-42X9-0	10	88	A	3800	6BC7	6.3	EV-0607-3	0	80	C		Diode No. 2
6AS11	6.3	B3-6805-0	14	85	A	3800	6BC7	6.3	EV-0201-3	0	80	C		Diode No. 3
6AS11	6.3	B3-3407-0	16	83	A	3300	6BC8	6.3	EV-7608-9	15	90	A	5200	Triode No. 1
6AT6	6.3	ET-1702-0	10	60	A	1300	6BD11†	6.3	EV-2103-9	18	90	A	6200	Triode No. 2
6AT6	6.3	ET-0802-0	0	26	A		6BD11	6.3	B3-A2X9-0	13	87	A	4500	Pent. Sect.
6AT6	6.3	ET-0502-0	0	28	A		6BD11	6.3	B3-6805-0	17	78	A	2500	Triode No. 1
6AT8	6.3	EV-8673-8	12	81	A	3000	6BD11	6.3	B3-9407-0	11	80	A	2750	Triode No. 2
6AT8	6.3	EV-1203-9	20	84	A	3500	6BE3†	6.3	B3-0207-0	0	89	D		
6AU4	6.3	HY-0503-0	0	89	A	5200	6BE6	6.3	ET-7562-1	0	35	B	300	AMPL. SECT. SEE PARTIAL LIST PAGE 645 THIS ISSUE
6AU5	6.3	HS-1583-0	25	88	A	2300	6BE6	6.3	ET-1602-7	20	80	A	6300	
6AU5	6.3	ET-1567-2	11	76	A	4200	6BF11†	6.3	B3-8AX9-0	25	88	A	5000	Pent. No. 1
6AU8	6.3	EV-7986-0	11	86	A	4000	6BF11	6.3	B3-3762-5	13	7	A	550	Pent. No. 2
6AU8	6.3	EV-2301-0	15	86	A	1250	6BH3†	6.3	EV-0209-0	0	87	D		SEE PARTIAL LIST PAGE 645 THIS ISSUE
6AV6	6.3	ET-1702-5	12	58	A		Model 6000	6.3	ET-1562-7	12	73	A	2000	Pent. Sect.
6AV6	6.3	ET-0502-0	0	26	C		6BH6	6.3	EV-7986-0	7	88	A	5000	Triode Sect.
6AV6	6.3	B3-9X04-0	0	26	C		6BH8	6.3	EV-2301-0	27	83	A	3300	Pent. Sect.
6AV11†	6.3	B3-7506-0	22	78	A	2500	6BH8	6.3	B3-3X9A-0	10	84	A	3500	Pent. Sect.
6AV11	6.3	B3-7506-0	22	78	A	2500	6BH11†	6.3	B3-6705-0	18	89	A	5100	Triode No. 1
6AV11	6.3	B3-A203-0	22	78	A	2500	6BH11	6.3	B3-4302-0	18	89	A	5100	Triode No. 2
6AW8	6.3	EV-7986-0	10	88	A	5000	6BJ3†	6.3	B3-0X07-0	0	88	D		
6AW8	6.3	EV-2301-0	16	78	A	2500	6BJ7	6.3	EV-0809-3	0	80	C		Diode No. 1
6AX3†	6.3	B3-0407-0	0	82	D		6BJ7	6.3	EV-0607-3	0	80	C		Diode No. 2
6AX4	6.3	HY-0503-0	0	82	D		6BJ7	6.3	EV-0201-3	0	80	C		Triode Sect.
6AX5	6.3	HS-0808-3	0	20	D		6BJ8	6.3	EV-0603-0	0	78	C		Diode No. 1
6AX5	6.3	HS-0308-5	0	20	D		6BJ8	6.3	EV-0102-0	0	78	C		Diode No. 2
6AY3†	6.3	EV-0209-0	0	87	D		6BK4	6.3	HS-0501-X	0	45	C		
Model 6000	A:	No Adapter Required.					6BK4	6.3	EV-7508-9	20	85	A	4000	Triode No. 1
6AY11†	6.3	B3-8709-0	20	22	A	660	6BK7	6.3	EV-2103-9	20	85	A	4000	Triode No. 2
6AY11	6.3	B3-5604-0	20	22	A	660	6BK7	6.3	B3-4X04-0	20	39	A	850	Triode No. 1
6AY11	6.3	B3-0X0A-0	0	77	C		6BK11†	6.3	B3-7506-0	19	7	A	550	Triode No. 2
6AY11	6.3	B3-0302-0	0	77	C		6BK11	6.3	B3-A203-0	19	7	A	550	Triode No. 3
6AZ8	6.3	EV-6123-0	11	81	A	3000	6BK11	6.3	HY-4506-0	24	88	A	5000	Triode No. 1
6AZ8	6.3	EV-9807-0	24	83	A	3300	6BL7	6.3	HY-1203-0	24	88	A	5000	Triode No. 2
6B10†	6.3	B3-5607-0	24	78	A	2500	6BL7	6.3	EV-2537-1	12	81	A	3000	Pent. Sect.
6B10	6.3	B3-3402-0	24	78	A	2500	6BL8	6.3	EV-9108-6	26	85	A	4000	Triode Sect.
6B10	6.3	B3-0X09-0	0	78	C		6BL8	6.3	EV-3672-0	24	86	A	4300	Pent. Sect.
6B10	6.3	B3-0809-0	0	78	C		6BM8	6.3	EV-1308-0	11	71	A	1900	Triode Sect.
6B10	6.3	EV-0209-0	0	84	D		6BM8	6.3	ET-2501-0	19	88	A	6000	
6BA3†	6.3	EV-0209-0	0	84	D		6BN4	6.3	ET-2501-0	19	88	A	6000	
Model 6000	A:	No Adapter Required.					6BN4	6.3	ET-2501-0	19	88	A	6000	
6BA5	6.3	DW-1578-0	19	75	A	2150	6BN6	6.3	ET-2501-6	6	27	B	700	Limiter Grid
6BA5	6.3	ET-1567-2	11	72	A	1900	6BN6	6.3	ET-6761-2	13	0	B	500	Quadrature Grid
6BA6	6.3	EV-7913-2	0	31	B	750								
6BA7	6.3	EV-2103-7	15	88	A	5000								

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
6DA4	6.3	HY-0503-0	0	86	D	Connect a 1 megohm resistor from cap lead to Local Test Socket Pin No. 7.	6EA7	6.3	JX-4506-0	11	65	A	1500 Triode No. 1
6DA5	6.3	EV-1912-0	Vary 100	100	F		6EA7	6.3	JX-1208-0	51	90	A	6500 Triode No. 2
6DB5	6.3	EV-3912-0	11	91	B		6EA8	6.3	EV-2637-0	11	79	A	2600 Pent. Sect.
6DC6	6.3	ET-1562-7	10	84	A		6EA8	6.3	EV-3108-0	11	89	A	5000 Triode Sect.
6DE4	6.3	HY-0503-0	0	89	D		6EB5	6.3	ET-0205-6	0	71	C	Diode No. 1
6DE6	6.3	ET-1562-7	11	81	A		6EB5	6.3	ET-0701-6	0	71	C	Diode No. 2
6DE7	6.3	EV-7608-0	27	73	A	Triode No. 1	6EB8	6.3	EV-7986-0	11	87	A	5100 Pent. Sect.
6DE7	6.3	EV-2108-0	54	89	A	Triode No. 2	6EB8	6.3	EV-2301-0	11	70	A	2000 Triode Sect.
6DG8	6.3	HS-5348-0	11	91	A		6EH4†	6.3	B3-0615-9	0	45	C	10000
6DJ8	6.3	EV-7608-0	22	91	A	Triode No. 1	6EH4†	6.3	B3-0605-X	0	45	C	3300
6DJ8	6.3	EV-2103-0	22	91	A	Triode No. 2	6EH5	6.3	ET-2761-0	13	88	A	2300
6DK3	6.3	EV-020X-0	0	86	C		6EH7	6.3	EV-2781-9	15	87	A	4600 Pent. Sect.
6DK8	6.3	ET-1562-7	12	83	C		6EH8	6.3	EV-7986-0	15	75	A	2300
6DL3†	6.3	EV-070X-0	0	86	C		6EJ4†	6.3	EV-2301-0	20	87	A	4000 Triode Sect.
Model 6000	6000	A: No Adapter Required.					6EJ7	6.3	B3-9605-X	0	45	C	4000
6DM4	6.3	HY-0503-0	0	89	D		6EL4	6.3	HS-0801-X	0	45	C	4300
6DN3†	6.3	EV-0709-0	0	86	C		6EM5	6.3	EV-3917-0	12	89	A	1500 Triode No. 1
Model 6000	6000	A: No Adapter Required.					6EM7	6.3	HY-4506-0	10	66	A	5260 Triode No. 2
6DN7	6.3	HY-4506-0	24	73	A	Triode No. 1	6EN4	6.3	HS-0801-X	0	45	C	2400 Pent. Sect.
6DN7	6.3	HY-1203-0	23	91	A	Triode No. 2	6EO7	6.3	EV-2763-1	17	60	A	2400 Diode Sect.
6DO3†	6.3	B3-0407-0	0	86	D		6EO7	6.3	EV-0803-0	0	26	C	3000
6DO4	6.3	JX-0503-0	0	86	D		6ES5	6.3	ET-2567-0	10	89	A	4600
6DO5	6.3	HS-1X43-0	43	92	B		6ES8	6.3	EV-7608-0	22	92	A	7500 Triode No. 1
6DO6	6.3	HS-3X48-0	25	90	B		6ES8	6.3	EV-2103-0	22	92	A	7500 Triode No. 2
6DR4	6.3	ET-5507-0	12	58	A		6ET7	6.3	EV-7986-0	10	89	A	4750 Pent. Sect.
6DR7	6.3	EV-7608-0	17	36	A		6ET7	6.3	EV-0301-0	0	21	C	Diode No. 1
6DR7	6.3	EV-2109-0	56	88	A		6ET7	6.3	EV-0201-0	0	21	C	Diode No. 2
6DS4†	6.3	DR-4208-0	22	79	A		6EU7	6.3	B3-8709-0	12	58	A	1250 Triode No. 1
Model 6000	6000	A:					6EU8	6.3	B3-5804-0	12	68	A	1250 Triode No. 2
6DS4	6.3	13-4208-0	22	79	A		6EU8	6.3	EV-7198-0	11	79	A	2600 Pent. Sect.
6DS5	6.3	ET-1562-0	13	87	A		6EU8	6.3	EV-2306-0	11	89	A	5000 Triode Sect.
6DT3†	6.3	B3-0407-0	0	86	D		6EV5	6.3	ET-1562-0	19	86	A	4000 Triode No. 1
6DT4	6.3	HY-0503-0	0	92	D		6EV7	6.3	EV-7608-0	10	84	A	3600 Triode No. 2
6DT5	6.3	EV-3917-0	21	87	A		6EV7	6.3	EV-2103-0	10	84	A	3700 Triode No. 1
6DT6	6.3	ET-1562-7	23	15	A		6EW6	6.3	ET-1562-7	11	84	A	2000 Triode No. 2
6DT6	6.3	ET-7662-1	16	0	B		6EW7	6.3	EV-7608-0	27	72	A	6000 Triode No. 1
6DT8	6.3	EV-7608-9	11	87	A		6EW7	6.3	EV-2108-0	54	88	A	7800 Triode No. 2
6DT8	6.3	EV-2103-9	11	81	A		6EX6	6.3	HS-5X33-0	48	91	A	7800
6DV4†	6.3	13-6107-0	27	88	A		Tubes indicating shorts: Re-test using HS-6X13-0						
6DW4†	6.3	EV-0209-0	0	89	D		6EY6	6.3	HS-5348-0	28	87	A	4400
Model 8000	8000	A: No Adapter Required.					6EZA	6.3	HS-5348-0	51	71	A	1800
6DX8	6.3	EV-8697-0	10	90	A		6EZ8	6.3	EV-9800-0	28	78	A	2500 Triode No. 1
6DX8	6.3	EV-1203-0	18	73	A		6EZ8	6.3	EV-7608-0	28	78	A	2500 Triode No. 2
6DZ4	6.3	ET-2105-0	35	87	A		6EZ8	6.3	EV-2301-0	18	78	A	2500 Triode No. 3
6DZ8	6.3	EV-3672-0	23	86	A		If no reading is obtained, use selector setting FU- in place of EV-						
6DZ8	6.3	EV-1008-0	19	39	A		6FA7	6.3	EV-7986-1	10	58	A	1250 Tetra No. 1
6EA4†	6.3	B3-0605-X	0	45	C		6FA7	6.3	EV-7188-9	10	58	A	1250 Tetra No. 2
6EA5	6.3	ET-1562-0	11	86	A		6FA7	6.3	EV-9305-1	0	26	C	Diode Sect.

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
6DA4	6.3	HY-0503-0	0	86	D	Connect a 1	6EA7	6.3	JX-4505-0	11	65	A 1500	Triode No. 1
6DA5	6.3	EV-1932-0	Vary 100	100	F	megohm resistor from cap lead to Local Test Socket Pin No. 7.	6EA7	6.3	JX-1203-0	51	90	A 6500	Triode No. 2
6DB5	6.3	EV-3912-0	11	91	B	Vary Bias to vary beam angle.	6EA8	6.3	EV-2637-0	11	79	A 2800	Pent. Sect.
6DC8	6.3	ET-1562-7	10	84	A		6EA8	6.3	EV-9108-0	11	89	A 5000	Triode Sect.
6DE4	6.3	HY-0503-0	0	88	D		6EB5	6.3	ET-0205-6	0	71	C	Diode No. 1
6DE6	6.3	ET-1562-7	11	81	A		6EB5	6.3	ET-0701-6	0	71	C	Diode No. 2
6DE7	6.3	EV-7608-0	27	73	A	Triode No. 1	6EB8	6.3	EV-7986-0	11	87	A 5100	Pent. Sect.
6DE7	6.3	EV-2108-0	54	89	A	Triode No. 2	6EB8	6.3	EV-2301-0	11	70	A 2000	Triode Sect.
6DG6	6.3	HS-5348-0	11	91	A		6EF4†	6.3	B3-0635-9	0	45	C	
6DJ8	6.3	EV-7608-0	22	91	A		6EH4†	6.3	B3-0605-X	0	45	C	
6DJ8	6.3	EV-2103-0	22	91	A		6EH5	6.3	ET-2761-0	13	88	A 10000	
6DK3	6.3	EV-020X-0	0	86	C		6EH7	6.3	EV-2781-9	15	87	A 3300	
6DK6	6.3	ET-1562-7	12	83	A		6EH8	6.3	EV-7986-0	15	75	A 2300	Pent. Sect.
6DL3†	6.3	EV-070X-0	0	88	C		6EH8	6.3	EV-2301-0	20	87	A 4600	Triode Sect.
Model 6000	6000	A: No Adapter Required.				USE ADAPTER 61-4, 100-14, NOTE 1	6EJ7	6.3	EV-2781-9	10	87	A 4000	
6DM4	6.3	HY-0503-0	0	89	D		6EL4	6.3	HS-0501-X	0	45	C	
6DN3†	6.3	EV-0709-0	0	86	C		6EM8	6.3	HY-4506-0	10	86	A 1500	Triode No. 1
Model 6000	6000	A: No Adapter Required.				USE ADAPTER 61-4, 100-14, NOTE 1	6EM7	6.3	HY-1203-0	53	91	A 5250	Triode No. 2
6DN7	6.3	HY-4506-0	24	73	A	Triode No. 1	6EN4	6.3	HS-0501-X	0	45	C	
6DN7	6.3	HY-1203-0	20	91	A	Triode No. 2	6EO7	6.3	EV-2762-1	17	60	A 2400	Pent. Sect.
6DQ3†	6.3	B3-4407-0	0	86	C		6EO7	6.3	EV-0803-0	0	29	A 5000	Diode Sect.
6DQ4	6.3	JX-0503-0	0	86	D		6ER6	6.3	ET-2557-0	10	89	A 4600	
6DQ5	6.3	HS-1X43-0	43	92	A		6ES5	6.3	ET-2601-0	10	87	A 7500	Triode No. 1
6DQ6	6.3	HS-5X48-0	25	90	B		6ES8	6.3	EV-7608-0	22	92	A 7500	Triode No. 2
6DR4	6.3	ET-8507-0	12	58	A		6ES8	6.3	EV-2103-0	22	92	A 7500	Pent. Sect.
6DR7	6.3	EV-7608-0	17	36	A		6ET7	6.3	EV-7986-0	10	89	A 4750	Diode No. 1
6DR7	6.3	EV-2109-0	56	88	A		6ET7	6.3	EV-0301-0	0	21	C	Diode No. 2
6DS4†	6.3	DR-4208-0	22	79	A		6EU7	6.3	EV-0201-0	0	21	C	Diode No. 1
Model 6000	6000	A: No Adapter Required.					6EU7	6.3	BS-8709-0	12	58	A 1250	Triode No. 2
6DS4	6.3	13-4208-0	22	79	A		6EU7	6.3	BS-8604-0	12	58	A 2500	Pent. Sect.
6DS4	6.3	ET-1562-0	13	87	A		6EU8	6.3	EV-7198-0	11	89	A 5000	Triode Sect.
6DT1†	6.3	B3-0407-0	0	86	C		6EV5	6.3	ET-1562-0	19	86	A 4000	Triode No. 1
6DT5	6.3	HY-0503-0	0	92	D		6EV7	6.3	EV-7608-0	10	84	A 3500	Triode No. 2
6DT6	6.3	EV-3917-0	21	87	A		6EV7	6.3	EV-2103-0	10	84	A 3700	Triode No. 1
6DT6	6.3	ET-1562-7	23	15	A	Grid No. 1	6EW6	6.3	ET-1562-7	11	84	A 2000	Triode No. 2
6DT6	6.3	ET-7562-1	16	0	B	Grid No. 3	6EW7	6.3	EV-7608-0	27	72	A 2000	Triode No. 1
6DT8	6.3	EV-7608-9	11	81	A	Triode No. 2	6EW7	6.3	EV-2109-0	54	88	A 5000	Triode No. 2
6DT8	6.3	EV-2103-9	11	81	A		6EX8	6.3	HS-5348-0	48	91	A 7500	
6DV4†	6.3	13-6107-0	27	88	A		Tubes indicating shorts: Re-test using HS-6X13-0						
6DW4†	6.3	EV-0209-0	0	89	D		6EY8	6.3	HS-5348-0	28	87	A 4400	
Model 6000	6000	A: No Adapter Required.					6EZ5	6.3	HS-5348-0	51	71	A 1800	Triode No. 1
6DX8	6.3	EV-8697-0	10	90	A		6EZ8	6.3	EV-9800-0	28	78	A 2500	Triode No. 2
6DX8	6.3	EV-1203-0	18	73	A		6EZ8	6.3	EV-7600-0	28	78	A 2500	Triode No. 3
6DZ4	6.3	ET-2106-0	36	87	A		6EZ8	6.3	EV-2301-0	18	78	A 2600	Triode No. 1
6DZ8	6.3	EV-3672-0	23	88	A		If no reading is obtained, use selector setting FU- in place of EV.						
6DZ8	6.3	EV-1908-0	19	39	A		6FA7	6.3	EV-7986-1	10	58	A 1250	Tetrode No. 1
6EA4†	6.3	B3-0605-X	0	45	C		6FA7	6.3	EV-7186-9	10	58	A 1250	Tetrode No. 2
6EA5	6.3	ET-1562-0	11	88	A		6FA7	6.3	EV-9306-1	0	26	C	Diode Sect.
							6FD6	6.3	ET-1657-2	18	45	C	Diode Sect.

TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
{6FD7	6.3	EV-7608-0	10	68	A	Triode No. 1	{6GJ7	6.3	EV-2671-0	11	86	A	3500 Pent. Sect.
{6FD7	6.3	EV-2109-0	58	89	A	Triode No. 2	{6GJ7	6.3	EV-9803-0	30	90	A	4250 Triode Sect.
{6FE5	6.3	HS-6348-0	30	92	A		{6GJ8	6.3	EV-2637-0	10	83	A	3000 Pent. Sect.
{6FE5	6.3	ET-1567-0	10	82	A		{6GJ8	6.3	EV-9108-0	10	84	A	3200 Triode Sect.
{6FG7	6.3	EV-9678-0	10	82	A	Pent. Sect.	{6GK5	6.3	ET-2507-6	19	89	A	5200
{6FG7	6.3	EV-1203-0	18	83	A	Triode Sect.	{6GK5	6.3	EV-2781-3	10	90	A	5750 Triode No. 1
{6FH5	6.3	ET-2507-0	14	87	A		{6GL7	6.3	JX-4506-0	23	23	A	600 Triode No. 2
{6FH8	6.3	EV-6970-0	25	78	A	TERMINAL PLATE NO. 1	{6GL7	6.3	JX-1293-0	57	90	A	6400
{6FH8	6.3	EV-6890-0	22	60	A	TERMINAL PLATE NO. 2	{6GM5	6.3	EV-6917-0	10	89	A	5100
{6FH8	6.3	EV-6176-0	22	60	A	TERMINAL PLATE NO. 3	{6GM6	6.3	ET-1562-7	10	88	A	5000
{6FH8	6.3	EV-2300-0	23	90	A	Triode Sect.	{6GN8	6.3	EV-7986-0	10	90	A	6000
If no reading is obtained, use selector setting FU- in place of EV.							{6GN8	6.3	EV-2301-0	16	60	A	1300
{6FU7†	6.3	B3-XN09-0	20	78	A	Triode No. 1	{6GQ7	6.3	EV-0909-0	0	80	C	---
{6FU7†	6.3	B3-3507-0	16	91	A	Triode No. 2	{6GQ7	6.3	EV-0807-0	0	80	C	---
{6FM7†	6.3	B3-XA09-0	20	46	A	Triode No. 1	{6GQ7	6.3	EV-0201-0	0	80	C	---
{6FM7†	6.3	B3-8507-0	62	88	A	Triode No. 2	{6GQ7	6.3	EV-6973-0	28	91	B	6600
{6FM8	6.3	EV-8807-0	11	56	A	Triode Sect.	{6GQ7	6.3	EV-0909-0	0	80	C	---
{6FM8	6.3	EV-0601-0	0	77	C	Diode No. 1	{6GU5	6.3	ET-1562-0	13	89	A	5500 Triode No. 1
{6FM8	6.3	EV-0203-0	0	77	C	Diode No. 2	{6GU5	6.3	EV-7508-0	30	75	A	2050 Triode No. 2
{6FO5	6.3	ET-2507-0	19	87	A	4500	{6GU7	6.3	EV-2103-0	30	75	A	2050
{6FO5A	6.3	ET-2507-6	19	89	A	5200	{6GV5†	6.3	B3-9244-0	42	86	A	4500
{6FQ7	6.3	EV-7608-0	23	79	A	2600	{6GW6	6.3	HS-6X48-0	28	91	B	6800
{6FQ7	6.3	ET-1567-0	10	85	A	3800	{6GW8	6.3	EV-8637-0	10	89	A	5500
{6FQ7	6.3	ET-1567-2	12	85	A	3800	{6GW8	6.3	EV-1502-0	10	45	A	960
{6FV6	6.3	EV-9678-0	10	60	A	2750	{6GX6	6.3	ET-1562-7	12	67	A	1800
{6FV8	6.3	EV-1203-0	15	80	A	5800	{6GX7	6.3	EV-2671-0	11	84	A	3200
{6FW5	6.3	HS-1953-0	48	90	A	5200	{6GX7	6.3	EV-9801-0	18	89	A	4800
{6FY7†	6.3	B3-1A09-0	20	32	A	1900	{6GY5†	6.3	B3-627X-0	30	92	B	9000
{6FY7†	6.3	B3-3507-0	54	92	A	6500	{6GY6	6.3	ET-1562-7	14	61	A	1350
{6FY8	6.3	EV-3672-0	22	89	A	5700	{6GY8	6.3	EV-0607-0	0	79	C	---
{6FY8	6.3	EV-1908-0	21	62	A	1400	{6GY8	6.3	FU-3908-0	20	75	A	2250
{6G11†	6.3	B3-8X19-0	19	88	A	5500	{6GY8	6.3	FU-1200-0	29	75	A	2250
{6G11†	6.3	B3-3472-4	10	8	A	700	{6GZ5	6.3	ET-2761-0	20	86	A	4000
{6GA7†	6.3	B3-4738-0	58	89	A	4500	{6HA5	6.3	ET-1507-6	20	87	A	4600
{6GA7†	6.3	B3-0M08-0	0	85	D	---	{6HA6	6.3	EV-2761-3	10	90	A	5600
{6GB5	6.3	EV-2X78-0	64	89	A	5000	{6H85†	6.3	B3-A72X-0	57	88	A	5600
{6GB5	6.3	EV-6917-0	11	91	B	7500	{6H86	6.3	EV-2781-9	10	92	A	7500
{6GE5†	6.3	B3-A72X-0	48	90	A	6000	{6H87	6.3	EV-2671-0	10	79	A	3100
{6GE8	6.3	EV-6917-0	14	72	A	1850	{6H87	6.3	EV-9801-0	11	89	A	4500
{6GE8	6.3	EV-3602-0	64	86	A	4700	{6H87	6.3	EV-2X79-8	50	87	A	4500
{6GF6†	6.3	B3-872X-0	54	88	A	4800	{6H87	6.3	EV-3572-0	15	88	A	5100
{6GF7†	6.3	EV-3601-0	19	35	A	700	{6H88	6.3	EV-1908-0	9	73	A	2000
{6GF7†	6.3	EV-2003-0	63	88	A	4200	{6HD5†	6.3	B3-A79X-0	54	89	A	6000
{6GF7	6000 A: No Adapter Required.					Triode No. 2	{6HD7	6.3	EV-2671-0	10	79	A	2800
{6GH8	6.3	EV-2637-0	11	82	A	3500	{6HD7	6.3	EV-9803-0	15	90	A	7000
{6GH8	6.3	EV-9108-0	21	85	A	3500	{6HE5†	6.3	B3-06X-0	23	87	A	4500
{6GJ5†	6.3	EV-5073-0	28	91	B	6500	{6HE7†	6.3	B3-06N8-0	64	81	A	7000
Model 6000 A: No Adapter Required.							{6HE7†	6.3	B3-0204-0	0	86	C	---

TUBE TYPE	FIL.	SELECTORS	BAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
6HF5†	6.3	B3-92M-0	75	88	A 4300	DO NOT USE TYPED CAP ON SOCKET. USE CAP TO PIN 2 OF THE SOCKET AS SHOWN.	6JC6	6.3	EV-2781-9	11	88	A 5000	Pent. Sect.
6HF8	6.3	EV-7986-0	10	88	A 4800		6JC8	6.3	EV-2837-0	10	82	A 3000	Triode Sect.
6HG5	6.3	EV-2301-0	20	89	A 1700		6JC8	6.3	EV-8901-0	10	89	A 5000	
6HG8	6.3	ET-1562-0	11	86	A 4100		6JDE†	6.3	B3-2704-3	0	88	A 4500	
6HJ5†	6.3	EV-2893-0	10	84	A 3600		6JD6	6.3	EV-2781-9	10	83	A 3200	USE ADAPTER PLATE 12-14, NOTE 1
6HJ7	6.3	EV-6703-0	32	82	A 3200		6JDE†	6.3	EV-2873-8	39	92	B 8100	
6HJ8	6.3	B3-A792-X	54	90	A 6500		Model 6000	A: No Adapter Required.				A 5000	Pent. Sect.
6HJ7	6.3	EV-2671-0	10	89	A 4000		6JEB	6.3	EV-7986-0	11	89	A 2200	Triode Sect.
6HJ8	6.3	EV-9803-0	20	91	A 4500		6JEB	6.3	EV-2301-0	12	75	B 7800	USE ADAPTER PLATE 12-14, NOTE 1
6HJ8	6.3	EV-2631-9	10	85	A 3500		6JFC†	6.3	EV-2173-8	32	92	B 7800	
6HJ8	6.3	EV-0807-0	0	79	C		Model 6000	A: No Adapter Required.				B 6050	Pent. Sect.
6HK5	6.3	ET-1502-0	19	88	A 5500		6JFB	6.3	HR-6146-0	25	90	D	Diode Sect.
6HL5	6.3	EV-2793-0	15	93	A 9800		6JG5	6.3	HR-0802-0	0	85	A 6000	
6HL8	6.3	EV-2637-0	10	87	A 4400		6JG5	6.3	EV-7986-0	10	90	A 6000	
6HLS	6.3	EV-9108-0	18	87	A 4400		6JG6†	6.3	EV-2973-6	32	92	B 7800	USE ADAPTER PLATE 12-14, NOTE 1
6HM5	6.3	ET-1507-6	20	87	A 4600		Model 6000	A: No Adapter Required.				A 4500	
6HM8	6.3	EV-2781-9	11	87	A 4700		6JH5†	6.3	B3-2704-3	0	88	A 3700	
6HO6	6.3	ET-1507-6	20	87	A 4400		6JH6	6.3	ET-1562-7	11	84	A 1200	PLATE NO. 1 DO NOT USE TYPED CAP ON SOCKET. USE CAP TO PIN 2 OF THE SOCKET AS SHOWN.
6HR5	6.3	ET-1562-0	10	87	A 4500		6JH8	6.3	EV-6937-1	23	57	A 1200	PLATE NO. 2 DO NOT USE TYPED CAP ON SOCKET. USE CAP TO PIN 2 OF THE SOCKET AS SHOWN.
6HS†	6.3	ET-1567-2	10	84	A 3600		6JH8	6.3	EV-6837-1	23	57	A 1200	
6HS†	6.3	B3-2704-3	0	88	A 4800		6JK5†	6.3	B3-2704-3	0	88	A 4500	
6HS8	6.3	ET-1567-2	14	82	A 3200		6JK6	6.3	ET-1562-7	10	86	A 4800	
6HS8	6.3	EV-7821-9	10	15	A 600	Pent. No. 1							
6HS8	6.3	EV-7321-6	10	15	A 600	Pent. No. 2							
6HT6	6.3	EV-2781-9	10	87	A 4500		6JK8	6.3	EV-7608-9	23	78	A 2000	Triode No. 1
6HV5†	6.3	B3-2704-3	0	82	C		6JK8	6.3	EV-2103-9	20	89	A 5000	Triode No. 2
6HW8	6.3	EV-6137-9	13	72	A 1900		6JL6	6.3	ET-1562-7	16	85	A 4200	
Make external connection from Pin 2 and 8 of octal socket to plate cap lead. Connect Pin 1 to Pin 7 in octal socket.													
6HZ5†	6.3	B3-2704-3	0	88	A 4500		6JL8	6.3	EV-7986-0	10	88	A 5200	Pent. Sect.
6HZ8	6.3	ET-1562-7	10	65	A 1400		6JL8	6.3	EV-2301-0	17	81	A 2300	Triode Sect. CONNECT JUMPER FROM TUBE CAP TO PIN NO. 6 ON OCTAL SOCKET.
6HZ8	6.3	EV-7986-0	16	88	A 5000		6JL8	6.3	B3-5632-4	43	88	A 7000	
6HZ8	6.3	EV-2301-0	18	76	A 2300		6JN6†	6.3	B3-A732-4	43	88	A 7000	
6J4	6.3	ET-1702-0	20	90	A 6000		6JNB	6.3	EV-8578-0	10	82	A 3200	Pent. Sect.
6J6	6.3	ET-6267-0	21	81	A 3000		6JNB	6.3	EV-1203-0	17	89	A 5500	Triode Sect.
6J6	6.3	ET-6107-0	21	81	A 3000		6JQ6	6.3	EV-7139-6	50	85	A 3800	Pent. Sect.
6J9†	6.3	EV-7801-0	17	81	A 3000		6JQ6	6.3	EV-4609-0	0	70	C	Diode Sect.
6J9	6.3	EV-9803-0	17	81	A 3000		6JRE†	6.3	EV-2913-6	65	83	A 4200	USE ADAPTER PLATE 12-14, NOTE 1
6J9	6.3	EV-2103-0	17	81	A 3000		Model 6000A	A: No Adapter Required.				A 4300	CONNECT JUMPER J40P TUBE CAP TO PIN NO. 4 ON OCTAL SOCKET. USE ADAPTER PLATE 12-14, NOTE 1
6J10†	6.3	B3-7403-5	6	27	E 700		6JRE†	6.3	B3-5632-4	53	88	A 4300	
6J10	6.3	B3-A553-0	16	86	A 4300		6JTB†	6.3	EV-2973-6	44	91	A 7000	
6J11†	6.3	B3-A578-X	10	86	A 4000		Model 6000	A: No Adapter Required.				A 6000	Pent. Sect.
6J11	6.3	B3-5326-4	10	86	A 4000		6JTB	6.3	EV-7986-0	12	90	A 6000	Triode Sect.
6J15†	6.3	B3-9654-0	55	88	A 5400		6JTB	6.3	EV-2301-0	18	46	A 950	
6J15†	6.3	B3-9654-0	51	71	A 1800		6JUB†	6.3	EV-2X13-8	72	85	A 4200	USE ADAPTER PLATE 12-14, NOTE 1
6J15†	6.3	EV-2113-8	28	91	B 6500		Model 6000	A: No Adapter Required.				C	Diode No. 1
6J15†	8000	A: No Adapter Required.					6JUB	6.3	EV-0808-0	0	78	C	Diode No. 2
6J18	6.3	EV-2637-0	25	45	A 1000		6JUB	6.3	EV-0708-0	0	78	C	Diode No. 3
6J18	6.3	EV-9108-0	18	77	A 2400		6JUB	6.3	EV-0203-0	0	78	C	Diode No. 4
6J25†	6.3	B3-9654-0	23	87	A 4500		6JUB	6.3	EV-0102-0	0	78	C	Diode No. 5

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
6JY6t	6.3	B3-A732-X	55	91	A 7000	Pent. Sect.	6KV8	6.3	EV-7988-0	11	91	A 7400	Pent. Sect.
6JW8	6.3	EV-2637-0	17	87	A 2200	Triode Sect.	6KV8	6.3	EV-2301-0	19	72	A 1900	Triode Sect.
6JW8	6.3	EV-9108-0	19	66	A 1600	Pent. Sect.	6KV8	6.3	EV-9708-6	12	58	A 1250	Triode No. 1
6JW8	6.3	EV-7988-0	7	89	A 3700	Pent. Sect.	6KV8	6.3	EV-1302-6	12	58	A 1250	Triode No. 2
6JW8	6.3	EV-2301-0	20	69	A 1680	Triode Sect.	6KY6	6.3	EV-2781-3	17	88	A 5000	Pent. Sect.
6JY8	6.3	EV-7986-0	18	86	A 4500	Pent. Sect.	6KY8t	6.3	EV-2673-0	41	88	A 5000	Pent. Sect.
6JY8	6.3	EV-2301-0	18	86	A 5000	Triode Sect.	6KY8t	6.3	EV-2673-0	41	88	A 5000	Pent. Sect.
6JZ6t	6.3	B3-5632-4	56	91	A 7000	Triode Sect.	6KY8	6.3	EV-9801-0	22	15	A 600	Triode Sect.
6JZ6t	6.3	B3-7439-0	25	88	A 3800	Pent. Sect.	Model 6000 A: No Adapter Required.						
6JZ8	6.3	B3-A204-0	29	65	A 1350	Triode Sect.	6KZ8	6.3	EV-2673-0	12	82	A 3200	Pent. Sect.
6K6	6.3	HS-5348-0	34	67	A 1600	Triode Sect.	6KZ8	6.3	EV-9108-0	22	84	A 3600	Triode Sect.
6K11t	6.3	B3-9X04-8	24	75	A 2200	Triode No. 1	6L6	6.3	HS-5348-1	17	88	A 5000	Pent. Sect.
6K11	6.3	B3-7506-8	12	58	A 1250	Triode No. 2	6L6t	6.3	B3-5632-4	35	91	B 9550	Triode Sect.
6K11	6.3	B3-A203-8	12	63	A 1250	Triode No. 3	6LB8	6.3	EV-7986-0	14	89	A 5300	Pent. Sect.
6KA8	6.3	B3-6983-7	16	70	A 1800	Pent. Sect.	6LB8	6.3	EV-2301-0	17	84	A 3600	Triode Sect.
6KA8	6.3	EV-2103-0	19	73	A 2000	Triode Sect.	6LC6	6.3	HS-0606-1	0	45	A 1500	Pent. Sect.
6KD6t	6.3	B3-5632-4	70	90	A 7500	Triode Sect.	6LC8	6.3	EV-6987-3	16	70	A 1800	Pent. Sect.
6KD8	6.3	EV-2637-0	10	79	A 2600	Pent. Sect.	6LOB	6.3	EV-2103-0	19	73	A 2000	Triode Sect.
6KD8	6.3	EV-9108-0	19	89	A 5200	Triode Sect.	6LD6	6.3	EV-2781-9	12	85	A 4600	Pent. Sect.
6KE8	6.3	EV-2637-0	11	85	A 3700	Triode Sect.	6LE8	6.3	EV-9883-7	10	85	A 1500	Pent. No. 1
6KE8	6.3	EV-9108-0	20	87	A 4500	Triode Sect.	6LE8	6.3	EV-9183-2	10	85	A 1500	Pent. No. 2
6KF8	6.3	EV-7821-9	10	17	A 700	Pent. No. 1	6LF8	6.3	EV-7988-0	5	90	A 3600	Pent. Sect.
6KF8	6.3	EV-7821-6	10	17	A 700	Pent. No. 2	6LF8	6.3	EV-2301-0	19	84	A 1350	Triode Sect.
6KL8	6.3	EV-2763-1	5	71	B 1700	Pent. Sect.	6LG6t	6.3	EV-2301-0	64	86	A 4650	Triode Sect.
6KL8	6.3	EV-0403-0	0	33	C	Model 6000 A: No Adapter Required.	6LH5	6.3	HS-0506-1	0	45	C	Triode Sect.
6KM6t	6.3	EV-2X73-8	65	89	A 5000	Triode Sect.	6LJ6	6.3	HS-0506-3	0	45	C	Triode Sect.
6KM8	6.3	EV-7986-0	5	50	B 950	Triode No. 1	6LJ8	6.3	EV-9578-0	15	75	A 2700	Pent. Sect.
6KM8	6.3	EV-7986-0	5	53	B 1000	Triode No. 2	6LJ8	6.3	EV-1203-0	24	76	A 2600	Triode Sect.
6KM8	6.3	EV-7186-0	5	53	B 1000	Triode No. 3	6LM8	6.3	EV-2637-0	13	82	A 3000	Pent. Sect.
6KM8	6.3	EV-0306-0	0	35	C	Triode No. 4	6LM8	6.3	EV-9108-0	18	83	A 4700	Triode Sect.
6KM6t	6.3	B3-5632-4	60	88	A 4500	Triode Sect.	6LN8	6.3	EV-2637-1	12	81	A 3000	Pent. Sect.
6KN8	6.3	EV-7508-0	22	90	A 6000	Triode No. 1	6LN8	6.3	EV-9108-6	26	85	A 4000	Triode Sect.
6KN8	6.3	EV-2103-0	22	90	A 6000	Triode No. 2	6LQ6t	6.3	EV-2X73-8	39	92	B 8100	Triode Sect.
6KR8	6.3	EV-7986-0	14	91	A 4750	Pent. Sect.	Model 6000A: No Adapter Required.						
6KR8	6.3	EV-2301-0	17	91	B 2900	Triode Sect.	6LQ8	6.3	EV-7986-0	11	91	A 7400	Pent. Sect.
6KQ6	6.3	ET-2751-6	6	27	B 700	Triode Sect.	6LQ8	6.3	EV-2301-0	17	90	A 6500	Triode Sect.
6KQ6	6.3	ET-6751-2	13	0	B 500	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KQ8	6.3	EV-7986-0	16	87	A 4500	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KQ8	6.3	EV-2301-0	20	69	A 1700	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KT6	6.3	EV-2781-9	15	81	A 2200	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KT8	6.3	EV-7986-0	10	85	A 4000	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KT8	6.3	EV-2301-0	20	29	A 1700	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-7986-0	14	90	A 5500	Triode Sect.	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 1	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 2	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 3	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 4	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 5	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 6	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 7	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 8	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 9	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 10	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 11	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 12	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 13	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 14	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 15	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 16	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 17	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 18	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 19	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 20	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 21	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 22	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 23	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 24	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 25	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 26	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 27	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 28	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 29	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 30	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 31	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 32	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 33	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 34	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 35	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 36	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 37	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 38	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 39	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 40	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 41	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 42	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 43	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 44	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 45	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 46	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 47	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 48	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 49	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 50	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 51	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 52	6LQ8	6.3	EV-2301-0	85	73	A 2250	Triode Sect.
6KL8	6.3	EV-0301-0	0	26	C	Triode No. 53	6LQ8	6.3	EV-2301-0	85	73		

TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
6LU8†	6.3	B3-6489-0	40	87	A 4000	Pent. Sect.	6MV8	6.3	EV-7986-0	10	86	A 4600	Pent. Sect.
6LU8	6.3	B3-X20A-0	24	62	A 1400	Triode Sect.	6MV8	6.3	EV-2801-0	15	73	A 2200	Triode Sect.
6LV6†	6.3	B3-5632-4	69	85	A 4350	CONVERT TUBES FROM TYPE 6A TO PIN 6 OR 6A1 SOCKET	6MY8†	6.3	B2-6489-0	40	87	A 4000	Pent. Sect.
6LV6	6.3	HY-5X32-0	75	88	A 5500	CONVERT TUBES FROM TYPE 6A TO PIN 6 OR 6A1 SOCKET	6MY8	6.3	B3-X20A-0	24	62	A 1400	Triode Sect.
6LX6†	6.3	B3-5632-4	70	90	A 7500	CONVERT TUBES FROM TYPE 6A TO PIN 6 OR 6A1 SOCKET	6Q11†	6.3	B3-X20A-8	24	75	A 2200	Triode No. 1
6LY8	6.3	EV-7986-0	22	85	A 3400	Pent. Sect.	6Q11	6.3	B3-7506-8	12	58	A 1250	Triode No. 2
6LY8	6.3	EV-2301-0	17	48	A 1100	Triode Sect.	6R4	6.3	B3-X203-8	12	58	A 1250	Triode No. 3
6LZ6†	6.3	EV-6X73-8	75	88	A 4500	SEE ADAPTER 34-11, PAGE 17	6S4	6.3	EV-1803-0	24	85	A 4000	Triode No. 1
Model 6000A: No Adapter Required.							6SN7	6.3	HY-4505-0	22	86	A 4150	Triode No. 2
6MS	6.3	JS-030X-0	0	91	D		6SN7	6.3	HY-1203-0	23	79	A 2600	Triode No. 2
6M11†	6.3	B3-2A31-0	11	86	A 3750	Pent. Sect.	6T4	6.3	ET-2105-0	36	88	A 6000	Triode Sect.
6M11	6.3	B3-8709-0	20	82	A 3000	Triode No. 1	6T8	6.3	EV-8907-0	11	66	A 1200	Diode No. 1
6M11	6.3	B3-5504-0	20	82	A 3000	Triode No. 2	6T8	6.3	EV-0807-0	0	77	C C	Diode No. 2
6MA6	6.3	DY-4807-X	0	46	C		6T8	6.3	EV-0203-0	0	77	C C	Diode No. 3
6MB6†	6.3	B3-5632-4	70	90	A 7500	CONVERT TUBES FROM TYPE 6A TO PIN 6 OR 6A1 SOCKET	6T9†	6.3	B3-8A19-0	15	87	A 4500	Pent. Sect.
6MB8	6.3	EV-9679-0	8	84	A 4000	Pent. Sect.	6T9	6.3	B3-4206-0	19	36	A 950	Triode Sect.
6MB8	6.3	EV-1203-0	13	88	A 4800	Triode Sect.	6T10†	6.3	B3-8A19-0	19	88	A 4600	Pent. No. 1
6MC6†	6.3	EV-2X73-8	70	90	A 7500	SEE ADAPTER 34-11, PAGE 17	6T10	6.3	B3-3762-6	14	21	B	Pent. No. 2
Model 6000A: No Adapter Required.							6U8	6.3	EV-2837-0	11	73	A 2000	Pent. Sect.
6MD8†	6.3	EV-6307-0	20	85	A 3500	Triode No. 1	6U8	6.3	EV-9108-0	12	90	A 6200	Triode Sect.
6MD8	6.3	EV-8287-0	20	85	A 3500	SEE ADAPTER 34-11, PAGE 17	6U9†	6.3	FW-3782-4	10	83	A 3300	Pent. Sect. USE ADAPTER 34-11, PAGE 17
6MD8	6.3	EV-9107-0	20	86	A 3500	Triode No. 2	6U9	6.3	FW-X301-0	29	81	A 3000	Triode Sect.
Model 6000 A: No Adapter Required.							6U10†	6.3	B3-X204-0	26	74	A 1900	Triode No. 1
6ME6†	6.3	EV-2X73-8	39	92	B	SEE ADAPTER 34-11, PAGE 17	6U10	6.3	B3-7506-0	19	14	A 575	Triode No. 2
Model 6000A: No Adapter Required.							6U10	6.3	B3-A203-0	26	74	A 1900	Triode No. 3
6ME8	6.3	EV-6937-2	24	25	A 700	Plate No. 1	6V3	6.3	EV-020X-0	0	88	D	
6ME8	6.3	EV-8837-2	24	25	A 700	Plate No. 2	6V5	6.3	HY-5340-0	40	86	A 4100	
6MFB†	6.3	B3-7488-0	30	84	A 4000	Pent. Sect.	6V6	6.3	HS-5348-1	13	86	A 4100	
6MFB	6.3	B3-X20A-0	23	66	A 1900	Triode Sect.	6V9†	6.3	FW-3741-2	10	48	B	
6MQ8	6.3	EV-2637-0	10	81	A 3050	Pent. Sect.	6V9	6.3	FW-2509-0	22	81	A 3000	Triode Sect.
6MQ8	6.3	EV-9108-0	70	88	A 5000	Triode Sect.	6W4	6.3	HY-0503-0	0	86	D	
6MH6†	6.3	B3-5632-4	70	90	A 7500	CONVERT TUBES FROM TYPE 6A TO PIN 6 OR 6A1 SOCKET	6W4	6.3	HS-5348-0	11	81	B	
Model 6000A: No Adapter Required.							6W9	6.3	ET-0507-1	0	40	D	
6MAJ6†	6.3	B3-A203-0	27	78	A 2800	Triode No. 1	6X4	6.3	ET-0107-6	0	40	D	
6MJ8	6.3	B3-X403-0	27	78	A 2900	Triode No. 2	6X5	6.3	HS-0308-1	0	50	D	
6MJ8	6.3	B3-8603-0	27	78	A 2800	Triode No. 3	6X5	6.3	HS-0308-1	0	50	D	
6MK8	6.3	EV-7821-3	11	30	F F	Pent. No. 1	6X8	6.3	EV-7506-1	12	81	A 3000	Pent. Sect.
6MK8	6.3	EV-7321-6	11	30	F F	Pent. No. 2	6X8	6.3	EV-2306-1	20	84	A 3600	Triode Sect.
6ML8	6.3	EV-6307-0	20	84	A 4000	Triode No. 1	6X9†	6.3	FW-3782-4	10	84	A 3000	Triode Sect.
6ML8	6.3	EV-8207-0	20	84	A 4000	Triode No. 3	6X9	6.3	FW-X301-0	12	81	A 3000	Triode Sect.
6ML8	6.3	EV-9107-0	20	84	A 4000	Triode No. 3	6Y9†	6.3	FW-EX97-0	13	88	A 5000	Pent. No. 1, SEE ADAPTER 34-11, PAGE 17
6MN8†	6.3	B3-8503-0	25	68	A 1800	Triode No. 1	6Y9	6.3	FW-1432-0	13	83	A 3300	Pent. No. 2
6MN8	6.3	B3-1403-0	25	68	A 1800	Triode No. 2	6Y10†	6.3	B3-8A09-0	20	86	A 4000	Pent. No. 1
6MT8	6.3	B3-A203-0	25	68	A 1800	Triode No. 3	6Y10	6.3	B3-3762-6	12	67	A 1800	Pent. No. 2
6MO8	6.3	EV-2637-0	15	80	A 3000	Pent. Sect.							
6MO8	6.3	EV-9108-0	20	83	A 3300	Pent. Sect.							
6MU8	6.3	EV-2637-0	19	86	A 4500	Pent. Sect.							
6MU8	6.3	EV-9108-0	25	73	A 2400	Triode Sect.							

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	
16Z4	6.3	FR-0304-0	0	60	D	Plate No. 1	8BN8	7.5	EV-3705-0	22	48	A	1000	Triode Sect.
16Z4	6.3	FR-0204-0	0	60	D	Plate No. 2	8BN8	7.5	EV-0803-0	0	78	C	---	Diode No. 1
16Z10†	6.3	B3-7468-5	5	27	B	Pent. No. 1	8BN8	7.5	EV-0102-0	0	78	C	3800	Diode No. 2
16Z10	6.3	B3-A923-0	15	88	A	Pent. No. 2	8BN11†	7.5	B3-7458-X	10	85	A	3800	Pent. No. 1
17AU7	6.3	EV-7608-0	24	76	A	Triode No. 1	8BN11	7.5	EV-3542-6	10	85	A	7500	Pent. No. 2
17AU7	6.3	EV-2103-0	24	75	A	Triode No. 2	8BO5	7.5	EV-2793-0	12	90	A	4000	Pent. No. 1
17DJ8	7.5	EV-7608-0	22	91	A	Triode No. 1	8BO11†	7.5	B3-X89A-7	5	85	A	5000	Pent. No. 2
17DJ8	7.5	EV-2103-0	22	91	A	Triode No. 2	8BO11	7.5	B3-5236-4	5	89	A	3800	Pent. Sect.
17ES8	7.5	EV-7608-0	22	92	A	Triode No. 1	8BU11†	7.5	B3-8X9A-0	10	85	A	5000	Triode No. 1
17ES8	7.5	EV-2103-0	22	92	A	Triode No. 2	8BU11	7.5	B3-6705-0	15	89	A	5000	Triode No. 2
17EY6	7.5	HS-5348-0	28	87	A	Triode No. 1	8CB11†	7.5	B3-4302-0	15	89	A	3700	Pent. No. 1
17FC7	7.5	EV-9608-0	24	90	A	Triode No. 2	8CB11	7.5	B3-X89A-7	10	85	A	3700	Pent. No. 2
17FC7	7.5	EV-2301-0	24	90	A	Pent. Sect.	8CG7	7.5	B3-5236-4	10	86	A	2600	Triode No. 1
17HG8	7.5	EV-2893-0	10	84	A	Triode Sect.	8CG7	7.5	EV-7608-9	23	79	A	2600	Triode No. 2
17HG8	7.5	EV-6703-0	32	82	A	Triode Sect.	8CM7	7.5	EV-2103-9	23	79	A	2000	Triode No. 1
17KY6	7.5	EV-2781-3	17	88	A	Triode Sect.	8CM7	7.5	EV-7603-0	27	73	A	4400	Triode No. 2
17KZ6	7.5	EV-2781-3	17	88	A	Pent. Sect.	8CN7	7.5	EV-3109-0	24	87	A	1200	Triode Sect.
18AC9†	7.5	EV-2781-3	10	87	A	Diode No. 1	8CN7	7.5	EV-7806-0	11	56	C	---	Diode No. 1
18AC9	7.5	B3-9A13-7	0	85	C	Diode No. 2	8CN7	7.5	EV-0203-0	0	77	C	---	Diode No. 2
18AC9	7.5	B3-0304-0	0	88	C	Triode No. 1	8CN7	7.5	EV-0103-0	0	77	C	2200	Triode No. 1
18AC10†	10.0	B3-9104-0	10	80	A	Triode No. 2	8CS7	7.5	EV-7608-0	22	75	A	4500	Triode No. 2
18AC10	10.0	B3-7506-0	10	80	A	Triode No. 3	8CS7	7.5	EV-3109-0	27	87	A	5500	Pent. Sect.
18AL9†	7.5	B3-A2X9-4	5	91	A	Pent. Sect.	8CW5	7.5	EV-2793-0	40	89	A	3300	Triode Sect.
18AL9	7.5	B3-6706-0	9	88	A	Triode Sect.	8CX3	7.5	EV-7986-0	16	83	A	2900	Pent. Sect.
18AR11†	7.5	B3-1204-7	10	81	A	Pent. No. 1	8CX3	7.5	EV-2301-0	15	81	A	5100	Triode Sect.
18AR11	7.5	B3-5236-4	10	81	A	Pent. No. 2	8E58	7.5	EV-7986-0	11	87	A	4300	Triode Sect.
18AU8	7.5	EV-7986-0	11	86	A	Pent. Sect.	8EM6	7.5	EV-3917-0	12	89	A	4750	Pent. Sect.
18AU8	7.5	EV-2301-0	15	86	A	Triode Sect.	8ET7	7.5	EV-7986-0	10	89	A	---	Diode No. 1
18AV11†	7.5	B3-0X04-0	22	78	A	Triode No. 1	8ET7	7.5	EV-0301-0	0	21	C	---	Diode No. 2
18AV11	7.5	B3-7508-0	22	78	A	Triode No. 2	8FQ7	7.5	EV-7503-0	23	79	A	2600	Triode No. 1
18AV11	7.5	B3-A203-0	22	78	A	Triode No. 3	8FQ7	7.5	EV-2103-0	23	79	A	2600	Triode No. 2
18AW8A	7.5	EV-7986-0	10	83	A	Pent. Sect.	8GK6	7.5	EV-2781-3	10	90	A	5750	Pent. Sect.
18AW8A	7.5	EV-2301-0	15	78	A	Triode Sect.	8GN8	7.5	EV-7986-0	10	90	A	6000	Triode Sect.
18B10†	7.5	B3-5607-0	28	75	A	Triode Sect.	8GN8	7.5	EV-2301-0	16	60	A	1300	Triode No. 1
18B10	7.5	B3-2402-0	28	75	A	Triode No. 2	8GU7	7.5	EV-7808-0	30	73	A	2050	Triode No. 2
18B10	7.5	B3-0X09-0	0	73	C	Diode No. 1	8GU7	7.5	EV-2103-0	30	75	A	2050	Pent. Sect.
18B10	7.5	B3-0X09-0	0	73	C	Diode No. 2	8GX7	7.5	EV-2671-0	11	84	A	3200	Triode Sect.
18BA8A	7.5	EV-7986-0	11	81	A	Pent. Sect.	8GX7	7.5	EV-5601-0	18	89	A	4900	Pent. Sect.
18BA8A	7.5	EV-2301-0	30	79	A	Triode Sect.	8JL8	7.5	EV-7586-0	10	83	A	3500	Triode Sect.
18BA11†	7.5	B3-4838-7	10	15	A	Pent. No. 1	8JL8	7.5	EV-2301-0	17	81	A	2900	Triode Sect.
18BA11	7.5	B3-4838-5	10	15	A	Pent. No. 2	8JL8	7.5	EV-0809-0	0	78	C	---	Diode No. 1
18BA11	7.5	B3-4838-5	10	15	A	Triode Sect.	8JL8	7.5	EV-0708-0	0	78	C	---	Diode No. 2
18BA11	7.5	B3-9A0X-0	30	62	A	Triode Sect.	8JL8	7.5	EV-0203-0	0	78	C	---	Diode No. 3
18BH8	7.5	EV-7986-0	7	83	A	Pent. Sect.	8JL8	7.5	EV-0102-0	0	78	C	---	Diode No. 4
18BH8	7.5	EV-5101-0	27	83	A	Triode Sect.	8JL8	7.5	EV-7986-0	0	78	C	---	Pent. Sect.
18BM11†	7.5	B3-475X-8	10	85	A	Pent. No. 1	8JL8	7.5	EV-2301-0	20	59	A	1680	Triode Sect.
18BM11	7.5	B3-5235-4	13	64	A	Pent. No. 2	8K11†	7.5	EV-9X04-8	24	75	A	2200	Triode No. 1
							8K11	7.5	B3-7506-8	12	58	A	1250	Triode No. 2
							8K11	7.5	B3-A303-8	12	58	A	1250	Triode No. 3

TUBE TYPE	FIL.	SELEKTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELEKTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS		
6KA8	7.5	EV-6983-7	16	70	A	1800	Pent. Sect.	9V9t	10.0	FW-3741-2	10	48	B	1000	SEPT. SECT. USE ADAPTER 34-1 100-10, 100-10, 100-10
8KA8	7.5	EV-2103-0	18	73	A	2000	Triode Sect.	9V9	10.0	FW-8209-0	22	81	A	3000	Triode Sect.
8KR8	7.5	EV-7986-0	14	91	A	4750	Pent. Sect.	10AL11t	10.0	B3-84X9-0	14	87	A	4300	Pent. No. 1
8KR8	7.5	EV-2301-0	17	91	A	3900	Triode Sect.	10AL11	10.0	B3-3672-4	20	21	A	620	Pent. No. 2
8LC8	7.5	EV-6987-3	16	70	A	2000	Pent. Sect.	10B05	10.0	EV-2793-0	12	90	A	7500	
8LC8	7.5	EV-2103-0	18	73	A	2000	Triode Sect.	10B05	10.0	EV-2793-0	40	89	A	5600	
8LR8t	7.5	EV-2673-0	40	87	A	4000	Pent. Sect. Use Adapter 34-1, 100-10, 100-10, 100-10	10DE7	10.0	EV-7808-0	27	78	A	2000	Triode No. 1
8LR8	7.5	EV-9801-0	24	62	A	1400	Triode Sect.	10DE7	10.0	EV-2109-0	54	89	A	8500	Triode No. 2
Model	6000A:	No Adapter Required.						10DR7	10.0	EV-7808-0	17	36	A	800	Triode No. 1
8LT8	7.5	EV-9321-6	10	85	A	3700	Pent. Sect.	10DR7	10.0	EV-2109-0	58	88	A	3800	Triode No. 2
8LT8	7.5	EV-0607-0	0	82	D	---	Diode No. 1	10EG7	10.0	HY-4506-0	30	73	A	2000	Triode No. 1
8LT8	7.5	EV-0807-0	0	82	D	---	Diode No. 2	10EG7	10.0	HY-1203-0	50	92	A	7500	Triode No. 2
8MU8	7.5	EV-2637-0	19	88	A	4900	Pent. Sect.	10EM7	10.0	HY-4506-0	10	86	A	1500	Triode No. 1
8MU8	7.5	EV-9108-0	25	73	A	2400	Triode Sect.	10EM7	10.0	HY-1203-0	53	91	A	5250	Triode No. 2
8U9t	7.5	FW-3782-4	10	83	A	3800	SEPT. SECT. USE ADAPTER 34-1 100-10, 100-10, 100-10	10GF7t	10.0	EV-9801-0	19	35	A	700	Triode No. 1
8U9	7.5	FW-X901-0	29	81	A	3000	Triode Sect.	10GF7	10.0	EV-2603-0	63	86	A	4200	Triode No. 2
8X9t	7.5	FW-3782-4	10	84	A	3600	SEPT. SECT. USE ADAPTER 34-1 100-10, 100-10, 100-10	Model	6000 A:	No Adapter Required.					
8X9	7.5	FW-X901-0	12	81	A	3000	Triode Sect.	10GK6	10.0	EV-2781-3	10	90	A	5750	Pent. Sect.
9AH9t	10.0	B3-5A87-9	10	87	A	5200	Pent. Sect.	10GN8	10.0	EV-7986-0	10	90	A	6000	Triode Sect.
9AH9	10.0	B3-2304-0	27	77	A	2350	Triode Sect.	10GN8	10.0	EV-2301-0	18	68	A	1300	Pent. Sect.
9AK10t	10.0	B3-6X04-0	14	85	A	4800	Triode No. 1	10GV8	10.0	EV-9678-0	28	91	A	6800	Pent. Sect.
9AK10	10.0	B3-7506-0	14	85	A	4500	Triode No. 2	10GV8	10.0	EV-2103-0	22	78	A	2200	Triode Sect.
9AK10	10.0	B3-A203-0	14	85	A	4600	Triode No. 3	10HF8	10.0	EV-7986-0	10	88	A	4800	Pent. Sect.
9AU7	10.0	EV-7808-0	24	75	A	2200	Triode No. 1	10HF8	10.0	EV-2301-0	20	68	A	1700	Triode Sect.
9AU7	10.0	EV-2103-0	24	75	A	2200	Triode No. 2	10J10t	10.0	B3-7488-5	6	27	B	700	Pent. No. 1
9BJ11t	10.0	B3-A791-8	10	66	A	1600	Pent. No. 1	10J10	10.0	B3-8423-0	18	88	A	4350	Pent. No. 2
9BJ11	10.0	B3-6235-4	13	84	A	3300	Pent. No. 2	10JA6t	10.0	B3-9634-0	55	88	A	5400	Tetrad Sect.
9EAB	10.0	EV-2637-0	11	79	A	2600	Pent. Sect.	10JA8	10.0	EV-7986-0	11	89	A	5200	Triode Sect.
9EAB	10.0	EV-9108-0	11	89	A	5000	Triode Sect.	10JA8	10.0	EV-2301-0	22	71	A	1850	Pent. Sect.
9GH8	10.0	EV-2637-0	11	82	A	9000	Pent. Sect.	10JTB	10.0	EV-7986-0	12	90	A	6000	Pent. Sect.
9GH8	10.0	EV-9108-0	21	85	A	3800	Triode Sect.	10JTB	10.0	EV-2301-0	18	48	A	950	Triode Sect.
9JWB	10.0	EV-2637-0	17	87	A	2200	Pent. Sect.	10JTB	10.0	EV-7986-0	18	86	A	4500	Pent. Sect.
9JWB	10.0	EV-9108-0	19	68	A	1600	Triode Sect.	10JTB	10.0	EV-2301-0	18	86	A	5000	Triode Sect.
9K06	7.5	EV-2791-8	10	85	A	3600	Pent. Sect.	10KR8	10.0	EV-7986-0	14	91	A	4750	Pent. Sect.
9KX6	7.5	EV-2781-3	12	89	A	1600	Triode Sect.	10KR8	10.0	EV-2301-0	17	91	B	3900	Triode Sect.
9KZ8	10.0	EV-2673-0	12	82	A	3200	Pent. Sect.	10KR8	10.0	EV-7986-0	0	26	C	---	Pent. Sect.
9KZ8	10.0	EV-5108-0	22	84	A	3400	Triode Sect.	10KR8	10.0	EV-0301-0	0	26	C	---	Diode No. 1
9LA6	7.5	EV-2781-3	12	88	A	5000	Pent. Sect.	10KR8	10.0	EV-0301-0	0	26	C	---	Diode No. 2
9ML8	10.0	EV-5387-0	20	84	A	4000	Triode No. 1	10L08	10.0	EV-7986-0	14	89	A	3800	Pent. Sect.
9ML8	10.0	EV-8307-0	20	84	A	4000	Triode No. 2	10L08	10.0	EV-2301-0	17	84	A	4600	Triode Sect.
9ML8	10.0	EV-9107-0	20	84	A	4000	Triode No. 3	10L08	10.0	EV-2781-3	12	86	B	4600	Pent. No. 1
9MNet	10.0	B3-8073-0	25	68	A	1850	Triode No. 1	10L08	10.0	EV-9633-7	10	65	A	1800	Pent. No. 2
9MNB	10.0	B3-X400-0	25	68	A	1450	Triode No. 2	10L08	10.0	EV-8153-2	10	65	A	1500	Pent. Sect.
9MNB	10.0	B3-A203-0	25	68	A	1450	Triode No. 3	10LW8	10.0	EV-2930-0	14	89	A	5000	Triode Sect.
9R-AL1	10.0	EV-7405-0	33	58	A	1800	Triode No. 1	10LW8	10.0	EV-2301-0	22	59	A	1300	Pent. Sect.
9R-AL1	10.0	EV-3109-0	35	79	A	2500	Triode No. 2	10LY8	10.0	EV-7986-0	22	85	A	3400	Pent. Sect.
								10LY8	10.0	EV-2301-0	17	48	A	1100	Triode Sect.
								10LZ8	10.0	EV-7986-0	14	87	A	4000	Pent. Sect.
								10LZ8	10.0	EV-2301-0	21	0	A	500	Triode Sect.

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS		
10T10†	10.0	B3-8AX9-0	19	88	A	4500	Pent. No. 1	12AL11†	12.6	B3-8AX9-0	14	87	A	4300	Pent. No. 1
10T10	10.0	B3-3752-5	14	21	B	625	Pent. No. 2	12AL11†	12.6	B3-3672-4	20	21	A	620	Pent. No. 2
10Z10†	10.0	B3-7468-6	6	27	B	700	Pent. No. 1	12A05	12.6	ET-1602-0	11	86	A	4100	Triode Sect.
10Z10	10.0	B3-A923-0	16	88	A	4300	Pent. No. 2	12AT6	12.6	ET-1702-0	10	60	A	1300	Diode No. 1
11A9†	12.6	FW-8X97-0	13	88	A	5000	Pent. No. 1	12AT6	12.6	ET-0602-0	0	26	C	---	Diode No. 2
11A9	12.6	FW-1432-0	13	83	A	3300	Pent. No. 2	12AT6	12.6	ET-0502-0	0	26	C	---	Triode No. 1
11AR1††	10.0	B3-X89A-7	10	81	A	2700	Pent. No. 1	12AT7	12.6	EV-7608-0	11	82	A	3000	Triode No. 2
11AR1†	10.0	B3-5238-4	10	81	A	2700	Pent. No. 2	12AT7	12.6	EV-2103-0	11	82	A	3000	Triode No. 1
11BQ1††	12.6	B3-X89A-7	10	85	A	3500	Pent. No. 1	12A06	12.6	ET-1667-2	11	76	A	2800	Triode No. 2
11BQ1†	12.6	B3-5238-4	10	87	A	4000	Pent. No. 2	12A07	12.6	EV-7608-0	24	76	A	2800	Triode No. 1
11BT1††	10.0	B3-A2X8-6	13	77	A	6000	Pent. Sect.	12A07	12.6	EV-2103-0	24	76	A	2800	Triode No. 2
11BT1†	10.0	B3-8706-0	16	77	A	2900	Triode No. 1	12AV5	12.6	HS-1583-0	42	88	A	5500	Triode Sect.
11BT1†	10.0	B3-3904-0	23	78	A	3000	Triode No. 2	12AV6	12.6	ET-1702-5	12	58	A	1250	Diode No. 1
11CA1††	10.0	B3-8AX9-7	20	86	A	4250	Pent. Sect.	12AV6	12.6	ET-1602-0	0	26	C	---	Diode No. 2
11CA1†	10.0	B3-6406-0	20	73	A	2300	Triode No. 1	12AV6	12.6	ET-1302-0	0	26	C	---	Triode No. 1
11CF1††	10.0	B3-5346-0	5	91	A	8000	Pent. Sect.	12AV7	12.6	EV-7608-2	20	85	A	4000	Triode No. 2
11CF1†	10.0	B3-9X08-0	5	86	A	4300	Triode No. 1	12AV7	12.6	EV-2103-7	20	85	A	4000	Triode No. 1
11CF1†	10.0	B3-A207-0	10	89	A	5500	Triode No. 2	12AX3†	12.6	B3-0407-0	0	82	D	---	Triode No. 2
11CY7	10.0	EV-7608-0	10	63	A	1100	Triode No. 1	12AX7	12.6	EV-7608-0	12	58	A	1250	Triode No. 1
11CY7	10.0	EV-2109-0	60	86	A	4000	Triode No. 2	12AX7	12.6	EV-2103-0	12	58	A	1250	Triode No. 2
11DS6	12.6	ET-1552-0	13	87	A	4800	Triode No. 1	12AY3†	12.6	EV-0209-0	0	87	D	---	Triode No. 1
11FY7†	10.0	B3-XA09-0	20	32	A	200	Triode No. 2	Model 6000 A: No Adapter Required.							
11FY7†	10.0	B3-3507-0	64	92	A	6500	Triode No. 2	12AY7	12.6	EV-7608-0	18	58	A	1250	Triode No. 2
11HM7	10.0	EV-2781-9	12	90	A	6000	Triode No. 2	12AY7	12.6	EV-2103-0	18	58	A	1250	Triode No. 1
11JE8	10.0	EV-7986-0	11	89	A	8000	Pent. Sect.	12AZ7	12.6	EV-7608-0	11	81	A	3000	Triode No. 1
11JE8	10.0	EV-2301-0	12	78	A	2200	Triode Sect.	12AZ7	12.6	EV-2103-0	11	81	A	3000	Triode No. 2
11KV8	10.0	EV-7986-0	11	91	A	7400	Pent. Sect.	12B4	12.6	EV-2901-0	50	80	A	6500	Triode No. 2
11KV8	10.0	EV-2301-0	19	72	A	1900	Triode Sect.	12BA6	12.6	ET-1667-2	11	72	A	1900	Ampl. Sect.
11LQ8	10.0	EV-7986-0	11	91	A	7400	Pent. Sect.	12BA7	12.6	ET-7913-2	0	31	B	750	Ampl. Sect.
11LQ3	10.0	EV-2301-0	17	90	A	6500	Triode Sect.	12BD5	12.6	ET-2103-7	18	88	A	5000	Ampl. Sect.
11LT8	12.6	EV-8321-6	10	80	A	3200	Pent. Sect.	12BE3†	12.6	ET-1667-2	11	73	A	2000	Ampl. Sect.
11LT8	12.6	EV-0607-0	0	81	D	---	Diode No. 1	12BE6	12.6	B3-0407-0	0	89	D	---	Ampl. Sect.
11LT8	12.6	EV-0607-0	0	81	D	---	Diode No. 2	12BE6	12.6	ET-7602-1	0	35	B	850	Ampl. Sect.
11LY6	10.0	EV-2781-3	11	87	A	4500	Pent. Sect.	12BF6	12.6	ET-1702-0	19	90	A	6500	Ampl. Sect.
11MS8	12.6	EV-9678-0	54	84	A	4400	Triode Sect.	12BF6	12.6	ET-0502-0	0	26	C	---	Triode Sect.
11MS8	12.6	EV-2103-0	22	74	A	2700	Pent. Sect.	12BF6	12.6	ET-0502-0	0	26	C	---	Diode No. 1
11Y9†	10.0	FW-8X97-0	13	80	A	5000	Triode Sect.	12BF11†	12.6	B3-8AX9-0	25	88	A	5000	Pent. No. 1
11Y9	10.0	FW-1432-0	13	83	A	3000	Pent. No. 2	12BF11	12.6	B3-5762-5	18	7	A	550	Pent. No. 2
12AC10†	12.6	B3-9X04-0	14	85	A	3700	Triode No. 1	12BH7	12.6	EV-7608-2	32	77	A	2380	Triode No. 1
12AC10	12.6	B3-7506-0	14	85	A	3700	Triode No. 2	12BH7	12.6	EV-2103-7	32	77	A	2380	Triode No. 2
12AC10	12.6	B3-A201-0	14	85	A	3700	Triode No. 3	12BN6	12.6	ET-2751-6	6	27	B	700	Limiter Grid
12AE10†	12.6	B3-8AX9-0	23	82	A	3200	Pent. No. 1	12BN6	12.6	ET-6751-2	18	0	B	600	Qualitative Grid
12AE10	12.6	B3-3752-5	22	35	A	800	Pent. No. 2	12BQ6	12.6	HS-5X48-0	42	89	A	5500	Qualitative Grid
12AF5	12.6	EV-020X-0	0	80	D	---	Diode No. 1	12BQ6	12.6	EV-0209-0	0	83	D	---	Qualitative Grid
12AL5	12.6	ET-0701-6	0	76	C	---	Diode No. 2	Model 6000 A: No Adapter Required.							
12AL5	12.6	ET-0205-6	0	78	C	---	Diode No. 2	12BT3†	12.6	B3-0407-0	0	88	D	---	Pent. No. 1
								12BV11†	12.6	B3-7904-A	10	73	A	2000	Pent. No. 2
								12BV11	12.6	B3-1341-2	10	73	A	2000	Pent. No. 2
								12BY3	12.6	EV-020X-0	0	88	D	---	Qualitative Grid

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
12BY7	12.6	EV-2761-3	11	87	A 4500	
12BZ6	12.6	ET-1562-7	11	81	A 3000	
12C6	12.6	ET-2761-0	20	91	B 7500	
12CA5	12.6	DU-2761-0	20	88	A 5500	SEE ADAPTER 34-4, USE FIL. NOTE 1
12CK34	12.6	EV-0209-0	0	86	C	SEE ADAPTER 34-4, USE FIL. NOTE 1
Model 6000 A:		No Adapter Required.				
12CL34	12.6	EV-0209-0	0	86	C	SEE ADAPTER 34-4, USE FIL. NOTE 1
Model 6000 A:		No Adapter Required.				
12CR6	12.6	ET-7561-2	14	74	A 2200	Pent. Sect.
12CR8	12.6	ET-0201-0	0	45	B 600	Diode Sect.
12CS6	12.6	ET-1562-7	11	15	B 750	SEE FIL. NOTE 1
12CS6	12.6	ET-7562-1	0	31	B 750	SEE FIL. NOTE 1
12CT3	12.6	EV-0209-0	0	94	D	OR ADAPTER 34-4, USE FIL. NOTE 1
12CU5	12.6	ET-2761-0	11	91	B 7000	
12CU6	12.6	HS-5X48-0	42	89	D	
12D4	12.6	HY-0603-0	0	86	D	
12DB5	12.6	EV-3912-0	11	91	B 7500	
12DJ8	12.6	EV-7608-0	22	91	A 7000	
12DJ8	12.6	EV-2103-0	22	91	A 7000	
12DM4	12.6	HY-0603-0	0	89	D	
12DM5	12.6	ET-2761-0	20	91	B 7500	
12DQ6	12.6	HS-5X48-0	25	90	B 6000	
12DT5	12.6	EV-3917-0	21	87	A 4400	
12DT6	12.6	ET-1562-7	23	15	A 600	
12DT6	12.6	ET-7562-1	16	0	B 500	
12DT7	12.6	EV-7608-0	12	58	A 1250	
12DT7	12.6	EV-2103-0	12	58	A 1250	
12DT8	12.6	EV-7608-9	11	81	A 3000	
12DT8	12.6	EV-2103-9	11	81	A 3000	
12DW4	12.6	EV-0209-0	0	89	D	
Model 6000 A:		No Adapter Required.				
12DW7	12.6	EV-7500-0	12	58	A 1250	
12DW7	12.6	EV-2103-0	25	75	A 2300	
12FQ8	12.6	EV-7809-0	10	35	A 800	
12FQ8	12.6	EV-7609-0	10	35	A 800	
12FQ8	12.6	EV-2309-0	10	35	A 800	
12FQ8	12.6	EV-2109-0	10	35	A 800	
12FX5	12.5	ET-2161-0	10	90	A 5750	
12G11	12.5	BS-3013-0	19	89	A 5000	
12G11	12.5	BS-3073-4	18	8	A 700	
12G16	12.5	HS-0383-0	45	90	A 8000	
12GE51	12.5	BS-3073-0	48	90	A 6000	
12GJ51	12.5	EV-5375-0	28	91	B 6000	
Model 6000 A:		No Adapter Required.				
12GN7	12.5	EV-2781-9	12	89	A 5550	
12GT51	12.5	EV-5373-0	28	91	B 6000	
Model 6000 A:		No Adapter Required.				
12GV51	12.5	BS-3234-0	42	86	A 4500	

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
13FM7†	12.6	B3-XM09-0	20	46	A	Triode No. 1
13FM7	12.6	B3-8507-0	62	88	A	Triode No. 2
13GF7†	12.6	EV-9801-0	19	35	A	Triode No. 1 Pent. No. 2
13GF7	12.6	EV-2503-0	63	86	A	Triode No. 2
Model 6000 A:	No Adapter Required.					
13J10†	12.8	B3-7468-5	5	27	B	Pent. No. 1
13J10	12.6	B3-8923-0	16	88	A	Pent. No. 2
13J25†	12.6	B3-7489-0	26	88	A	Pent. Sect.
13J28	12.6	B3-X20A-0	29	65	A	Triode Sect.
13V10†	12.6	B3-8AX3-0	21	87	A	Pent. No. 1
13V10	12.6	B3-3752-5	24	0	A	Pent. No. 2
13Z10†	12.6	B3-7468-5	6	27	B	Pent. No. 1
13Z10	12.6	B3-8923-0	16	88	A	Pent. No. 2
14BL11†	12.6	B3-A2X8-0	13	90	A	Pent. Sect.
14BL11	12.8	B3-5706-0	14	82	A	Triode No. 1
14BL11	12.6	B3-3904-0	22	62	A	Triode No. 2
14BR11†	12.6	B3-2434-0	10	89	A	Pent. Sect.
14BR11	12.6	B3-8605-0	17	81	A	Triode No. 1
14BR11	12.6	B3-X907-0	14	82	A	Triode No. 2
14GT8	12.8	EV-8907-0	10	15	A	Triode Sect.
14GT8	12.6	EV-0601-0	0	80	C	Diode No. 1
14GT8	12.6	EV-0203-0	0	80	C	Diode No. 2
14JG8	12.6	EV-8907-0	10	65	A	Triode Sect.
14JG8	12.6	EV-0601-0	0	77	C	Diode No. 1
14JG8	12.6	EV-0203-0	0	77	C	Diode No. 2
15AF11†	17.0	B3-42X9-0	8	90	A	Triode Sect.
15AF11	17.0	B3-6805-0	17	81	A	Triode No. 1
15AF11	17.0	B3-3407-0	13	82	A	Triode No. 2
15BD11†	17.0	B3-82X9-0	12	87	A	Triode Sect.
15BD11	17.0	B3-6805-0	13	78	A	Triode No. 1
15BD11	17.0	B3-3407-0	10	80	A	Triode No. 2
15CW5	17.0	EV-2793-0	42	88	A	Triode Sect.
15EW7	17.0	EV-7608-0	30	63	A	Triode No. 1
15EW7	17.0	EV-2109-0	56	91	A	Triode No. 2
15FM7†	12.6	B3-XM09-0	20	46	A	Triode No. 1
15FM7	12.6	B3-8507-0	58	88	A	Triode No. 2
15FY7†	17.0	B3-XM09-0	18	33	A	Triode Sect.
15FY7	17.0	B3-3507-0	47	91	A	Triode No. 1
15H46	17.0	EV-2761-3	10	90	A	Triode No. 2
15H46	17.0	EV-2761-9	20	88	A	Triode Sect.
15K Y8†	17.0	EV-2673-0	42	80	A	Triode Sect.
15K Y8	17.0	EV-9801-0	19	27	A	Triode Sect.
Model 6000 A:	No Adapter Required.					

TUBE TYPE	FL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	ROTATIONS	TUBE TYPE	FL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	
17BW3†	17.0	E3-0407-0	0	89	D	OR ADAPTER 14-4	17X10†	17.0	E3-7462-5	6	27	B	700	Limiter Grid
17BZ3†	17.0	E3-0X07-0	0	86	C		17X10	17.0	E3-8468-7	13	0	B	500	OR ADAPTER 14-4
17C5	17.0	ET-2761-0	20	91	B		17X10	17.0	E3-8923-0	25	83	A	3100	Pent. No. 2
17C9†	17.0	EV-7986-0	15	85	A	Tetrode No. 1	18A5	17.0	HS-1533-0	40	88	A	4800	
17C9	17.0	EV-132X-0	15	85	A	Tetrode No. 2	18A310†	17.0	E3-8X19-0	29	72	B	2400	Pent. No. 1
17CK3†	17.0	EV-0209-0	0	86	C	OR ADAPTER 14-4	18AJ10	17.0	E3-3762-5	10	60	A	900	Pent. No. 2
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	18FW6	17.0	ET-1567-2	12	73	A	2000	
17CL3†	17.0	EV-0209-0	0	36	C	OR ADAPTER 14-4	18FX6	17.0	ET-1562-7	11	43	A	900	Ampl. Sect.
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	18FY6	17.0	ET-1702-0	21	0	A	5000	Osc. Sect.
17CT3	17.0	EV-0209-0	0	94	D	OR ADAPTER 14-4	18FY6	17.0	ET-0602-0	0	32	C	C	Triode Sect.
17CU5	17.0	ET-2761-0	38	86	A		18FY6	17.0	ET-0502-0	0	32	C	C	Diode No. 1
17D4	17.0	HY-0503-0	0	86	D		18GB5	17.0	EV-2X78-0	84	89	A	5000	OR ADAPTER 14-4
17DE4	17.0	HY-0503-0	0	89	D		18GD5A	17.0	ET-1657-2	15	73	A	1750	
17DM4	17.0	HY-0503-0	0	89	D		18AQ6	20.0	ET-1562-0	11	86	A	4100	
17DQ6	17.0	HS-5X48-0	25	90	B	USE ADAPTER 14-4	18AJ4	20.0	HY-0503-0	0	89	D	---	
17DW4	17.0	EV-0209-0	0	89	D	OR ADAPTER 14-4	19CG3†	20.0	E3-0407-0	0	91	D	---	
Model 6000A: No Adapter Required.						OR ADAPTER 14-4	19CL8A	20.0	EV-9678-0	10	84	A	3300	Tetrode Sect.
17GE5†	17.0	E3-172X-0	43	90	A	OR ADAPTER 14-4	19CL8A	20.0	EV-1203-0	12	89	A	6000	Triode Sect.
17GJ6†	17.0	EV-6X73-0	28	91	B	OR ADAPTER 14-4	19DE3†	20.0	B3-0403-0	0	86	C	---	OR ADAPTER 14-4
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19DK3	20.0	EV-020X-0	0	86	C	---	OR ADAPTER 14-4
17GT5†	17.0	EV-6973-0	28	91	B	OR ADAPTER 14-4	19DQ3†	20.0	E3-0407-0	0	86	C	---	OR ADAPTER 14-4
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19EA8	20.0	EV-2637-0	17	79	A	2600	Pent. Sect.
17GV5†	17.0	B3-92A4-0	44	91	A	OR ADAPTER 14-4	19EA8	20.0	EV-9103-0	13	89	A	5000	Triode Sect.
17GW6	17.0	HS-5X48-0	28	91	B	OR ADAPTER 14-4	19EA8	20.0	EV-9103-0	13	89	A	5000	Triode No. 1
17H3	17.0	EV-0301-0	0	80	D	OR ADAPTER 14-4	19EZ8	20.0	EV-9800-0	19	69	A	1700	Triode No. 2
17H-825	17.0	EV-2X79-8	50	87	A	OR ADAPTER 14-4	19EZ8	20.0	EV-7800-0	19	69	A	1700	Triode No. 3
17JB6†	17.0	EV-2X13-8	28	91	B	OR ADAPTER 14-4	19EZ8	20.0	EV-2301-0	20	71	A	1850	
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19FX5	20.0	ET-2761-0	10	90	A	5750	If no reading is obtained, use selector setting FU-in place of EV.
17JF6†	17.0	EV-2X73-8	32	92	B	OR ADAPTER 14-4	19Q7	20.0	EV-8009-0	0	80	C	---	Diode No. 1
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19Q7	20.0	EV-0807-0	0	80	C	---	Diode No. 2
17JG6A†	17.0	EV-2873-6	32	92	B	OR ADAPTER 14-4	19Q7	20.0	EV-0201-0	0	80	C	---	Diode No. 3
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19H56	20.0	ET-1567-2	10	84	A	3600	
17JM6†	17.0	B3-5632-4	43	88	A	OR ADAPTER 14-4	19H56	20.0	ET-1567-2	14	82	A	3200	
17JN6†	17.0	B3-1732-4	43	88	A	OR ADAPTER 14-4	19H56	20.0	ET-1567-2	14	82	A	3200	
17JQ6	17.0	EV-2139-6	50	85	A	Pent. Sect.	19H56	20.0	EV-9678-0	11	81	A	3000	Pent. Sect.
17JQ6	17.0	EV-0509-0	0	70	C	Triode Sect.	19H56	20.0	EV-1203-0	14	59	A	1300	Pent. Sect.
17JR6†	17.0	EV-2913-6	65	85	A	OR ADAPTER 14-4	19JN8	20.0	EV-9678-0	10	82	A	3200	Triode Sect.
Model 6000A: No Adapter Required.						OR ADAPTER 14-4	19JN8	20.0	EV-1203-0	17	89	A	5500	Triode Sect.
17JT6†	17.0	EV-2873-6	44	91	A	OR ADAPTER 14-4	19KQ8	20.0	EV-9678-0	11	82	A	3100	Pent. Sect.
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19KQ8	20.0	EV-2103-0	18	88	A	5100	Triode Sect.
17JZ8†	17.0	B3-7489-0	33	88	A	OR ADAPTER 14-4	19M-R9	17.0	ET-1567-2	15	73	A	1750	
17JZ8	17.0	B3-200A-6	31	57	A	Pent. Sect.	19M-R9	17.0	ET-1567-2	15	73	A	1750	
17KV6†	17.0	EV-2973-6	41	87	B	Triode Sect.	19M-R9	17.0	ET-1567-2	15	73	A	1750	
Model 6000A: No Adapter Required.						OR ADAPTER 14-4	19M-R9	17.0	ET-1567-2	15	73	A	1750	
17LD8†	17.0	EV-2573-0	35	91	A	OR ADAPTER 14-4	19M-R9	17.0	ET-1567-2	15	73	A	1750	
17LD8	17.0	EV-2501-0	31	73	A	OR ADAPTER 14-4	19M-R9	17.0	ET-1567-2	15	73	A	1750	
Model 6000 A: No Adapter Required.						OR ADAPTER 14-4	19M-R9	17.0	ET-1567-2	15	73	A	1750	

If no reading is obtained, use selector setting FU-in place of EV.

TUBE TYPE	FIL.	SELECTIONS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL.	SELECTIONS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	
20LF6†	20.0	B3-5632-4	69	85	A	4350	24BF11†	25.0	B3-5A93-0	25	88	A	5000	Pentode No. 1
21GY5†	20.0	B3-5274-0	30	92	B	5000	24BF11†	25.0	B3-3762-5	19	7	A	600	Pentode No. 2
21HB5†	20.0	B3-A72X-0	57	89	A	5600	24GA7†	25.0	B3-4735-0	88	80	A	4500	Pent. Sect.
21HD6†	20.0	B3-A79X-0	54	89	A	6000	24GA7†	25.0	B3-0408-0	0	85	D	—	Diode Sect.
21HJ5†	20.0	B3-A792-X	54	90	A	6500	24JE6†	25.0	B3-2A73-8	39	92	B	8100	USE ADAPTER 2A-4, 100-144, NOTE 1
21JS6†	20.0	B3-5632-4	53	88	A	4300	Model 6000 A: No Adapter Required.							
21JV6†	20.0	B3-A792-X	55	91	A	7000	24JZ8†	25.0	B3-7483-0	32	86	A	4150	Pent. Sect.
21JZ6†	20.0	B3-5632-4	56	91	A	7000	24JZ8†	25.0	B3-X20A-0	29	80	A	1500	Triode Sect.
21KA6†	20.0	B3-523X-4	57	89	A	5500	24LQ6†	25.0	EV-2A73-8	39	92	B	8100	USE ADAPTER 2A-4, 100-144, NOTE 1
21KQ6	20.0	EV-3X39-0	65	87	A	4800	Model 6000A: No Adapter Required.							
21LG6†	20.0	B3-52A4-0	64	86	A	4650	24LZ6†	25.0	EV-6X73-8	75	88	A	4500	USE ADAPTER 2A-4, 100-144, NOTE 1
21LR6†	20.0	EV-2573-0	40	87	A	4000	Model 6000A: No Adapter Required.							
21LR8	20.0	EV-9801-0	24	62	A	1400	25A7B	25.0	HS-1583-0	42	89	A	5500	
Model 6000 A: No Adapter Required.							25AX4	25.0	HY-0503-0	0	82	D	—	
21LU8†	20.0	B3-6489-0	40	87	A	4000	25BK5	25.0	EV-3185-0	11	88	A	5000	
21LU8	20.0	B3-420A-0	24	62	A	1400	25BQ6	25.0	HS-5A48-0	42	89	A	5500	
21MY8†	20.0	B3-6489-0	40	87	A	4000	25C5	25.0	EV-2761-0	20	91	B	7500	
21MY8	20.0	B3-X20A-0	24	62	A	1400	25CA5	25.0	DJ-2761-0	20	89	A	5500	
22BH3†	20.0	EV-0209-0	0	87	D	—	25CD6	25.0	HS-5A83-0	35	90	A	5500	
Model 6000 A: No Adapter Required.							25CG3†	25.0	B3-0407-0	0	91	D	—	
22BW3†	25.0	B3-0037-0	0	89	D	—	25CK3†	25.0	EV-0209-0	0	86	C	—	
22DE4	25.0	HY-0503-0	0	89	D	—	Model 6000 A: No Adapter Required.							
22JF6†	20.0	EV-2A73-8	32	92	B	7800	25CT3	25.0	EV-0209-0	0	94	D	—	
Model 6000 A: No Adapter Required.							25DK3	25.0	EV-070X-0	0	86	C	—	
Model 6000 A: No Adapter Required.							25DN6	25.0	HS-4A03-0	28	93	B	9000	
22JR6†	20.0	EV-2913-6	65	85	A	4200	25EO6	25.0	HS-5A03-0	42	88	A	5500	
Model 6000A: No adapter required.							25EH5	25.0	ET-2761-0	13	88	A	10000	
22JU6†	20.0	EV-2A73-8	72	85	A	4200	25F5	25.0	ET-2761-0	25	85	A	4000	
Model 6000 A: No Adapter Required.							25F5A	25.0	ET-2761-0	25	86	A	4400	
22KM5†	20.0	EV-2A73-8	65	89	A	5000	25H-B23	25.0	EV-2A73-8	60	87	A	4400	
Model 6000 A: No Adapter Required.							25HX5	25.0	EV-7953-0	50	88	A	5000	USE ADAPTER 2A-4, 100-144, NOTE 1
22KV6†	20.0	EV-2973-6	41	87	B	4800	25JQ6	25.0	EV-7189-6	50	85	A	3800	Pent. Sect.
Model 6000A: No Adapter Required.							25JQ6	25.0	EV-0000-0	0	70	C	—	
23JS6†	25.0	B3-5632-4	53	88	A	4300	25JZ8†	25.0	B3-7A03-0	32	86	A	4150	Diode Sect.
Model 6000A: No Adapter Required.							25L6	25.0	B3-X20A-0	29	80	A	1500	Pent. Sect.
23MB6†	25.0	B3-5632-4	70	89	A	6400	25L6	25.0	HS-534B-1	33	88	A	5200	Triode Sect.
23Z9†	25.0	B3-6587-0	35	88	A	5000	25W4	25.0	HY-0503-0	0	88	D	—	
23Z9	25.0	B3-XA07-0	20	76	A	2200	26DQ5	25.0	HS-1X43-0	43	92	A	7800	
23Z9	25.0	B3-3207-0	30	89	A	1800	26HD6	25.0	HY-1X32-0	70	90	A	7500	
							26LW6	25.0	HY-0A32-0	75	88	A	5500	
							26LX6†	25.0	B3-5632-4	70	90	A	7500	
							27LF6†	25.0	B3-5632-4	69	85	A	4350	
							28D7	25.0	JR-7036-2	13	83	B	3400	
							28D7	25.0	JR-2A03-7	13	83	B	3400	
							28HA6	25.0	EV-2761-3	10	90	A	5500	Pent. No. 1
							28HD6†	25.0	B3-A79X-0	54	89	A	5000	Triode No. 2

TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
28GK6	25.0	EV-2781-3	10	90	A	5760	28GK6	25.0	EV-2781-3	10	90	A	5760
29LE6	25.0	EV-8X39-7	65	87	A	4800	29LE6	25.0	EV-8X39-7	65	87	A	4800
30AG11†	35.0	E3-8709-0	15	87	A	4000	30AG11†	35.0	E3-8709-0	15	87	A	4000
30AG11	35.0	E3-5604-0	15	87	A	4000	30AG11	35.0	E3-5604-0	15	87	A	4000
30AG11	35.0	E3-0X04-0	0	76	C	—	30AG11	35.0	E3-0X04-0	0	76	C	—
30AG11	35.0	E3-0302-0	0	76	C	—	30AG11	35.0	E3-0302-0	0	76	C	—
30H15†	25.0	E3-4792-X	54	90	A	6500	30H15†	25.0	E3-4792-X	54	90	A	6500
30JZ6†	25.0	E3-5832-4	56	91	A	7000	30JZ6†	25.0	E3-5832-4	56	91	A	7000
30KD6†	30.0	B3-5632-4	70	90	A	6400	30KD6†	30.0	B3-5632-4	70	90	A	6400
30MB6†	35.0	E3-5632-4	70	90	A	6400	30MB6†	35.0	E3-5632-4	70	90	A	6400
30M-P27	25.0	ET-2761-0	54	84	A	4400	30M-P27	25.0	ET-2761-0	54	84	A	4400
30R-K47	25.0	EV-090X-0	0	93	D	—	30R-K47	25.0	EV-090X-0	0	93	D	—
31AL10†	35.0	E3-8457-0	26	90	A	7100	31AL10†	35.0	E3-8457-0	26	90	A	7100
31AL10	35.0	E3-A90X-0	7	86	A	4000	31AL10	35.0	E3-A90X-0	7	86	A	4000
31AL10	35.0	E3-3207-0	22	78	A	2900	31AL10	35.0	E3-3207-0	22	78	A	2900
31J50A†	35.0	B3-5632-4	53	88	A	4300	31J50A†	35.0	B3-5632-4	53	88	A	4300
31LQ6†	35.0	EV-2X73-8	39	92	B	8100	31LQ6†	35.0	EV-2X73-8	39	92	B	8100
Model 6000A: No Adapter Required.							Model 6000A: No Adapter Required.						
31LR6†	35.0	EV-2673-0	40	87	A	4000	31LR6†	35.0	EV-2673-0	40	87	A	4000
31LP8	35.0	EV-9901-0	24	62	A	1400	31LP8	35.0	EV-9901-0	24	62	A	1400
Model 6000A: No Adapter Required.							Model 6000A: No Adapter Required.						
31LZ6†	35.0	EV-6X73-8	75	88	A	4500	31LZ6†	35.0	EV-6X73-8	75	88	A	4500
Model 6000A: No Adapter Required.							Model 6000A: No Adapter Required.						
32E15	35.0	ET-2761-0	37	86	A	4000	32E15	35.0	ET-2761-0	37	86	A	4000
32GA7†	35.0	E3-4735-0	58	89	A	4500	32GA7†	35.0	E3-4735-0	58	89	A	4500
32GA7	35.0	E3-0A08-0	0	85	D	—	32GA7	35.0	E3-0A08-0	0	85	D	—
32HQ7†	35.0	E3-05A8-0	43	86	B	4500	32HQ7†	35.0	E3-05A8-0	43	86	B	4500
32HQ7	35.0	E3-0204-0	0	84	C	—	32HQ7	35.0	E3-0204-0	0	84	C	—
33GT7†	35.0	E3-A238-0	31	91	B	6000	33GT7†	35.0	E3-A238-0	31	91	B	6000
33GT7	35.0	E3-0204-0	0	85	D	—	33GT7	35.0	E3-0204-0	0	85	D	—
33QY7†	35.0	E3-1318-0	31	91	B	6000	33QY7†	35.0	E3-1318-0	31	91	B	6000
33QY7	35.0	E3-0704-0	0	85	D	—	33QY7	35.0	E3-0704-0	0	85	D	—
33HE7†	35.0	E3-9M48-0	54	91	A	7000	33HE7†	35.0	E3-9M48-0	54	91	A	7000
33HE7	35.0	E3-0204-0	0	89	D	—	33HE7	35.0	E3-0204-0	0	89	D	—
33JF6†	35.0	EV-2913-6	65	85	A	4200	33JF6†	35.0	EV-2913-6	65	85	A	4200
Model 6000 A: No Adapter Required.							Model 6000 A: No Adapter Required.						
33JV6†	35.0	E3-4732-X	65	91	A	7000	33JV6†	35.0	E3-4732-X	65	91	A	7000
34CL6†	35.0	E3-0X07-0	0	93	D	—	34CL6†	35.0	E3-0X07-0	0	93	D	—
34CE3†	35.0	E3-0407-0	0	86	C	—	34CE3†	35.0	E3-0407-0	0	86	C	—
34CM3†	35.0	EV-0279-0	0	90	D	—	34CM3†	35.0	EV-0279-0	0	90	D	—
Model 6000 A: No Adapter Required.							Model 6000 A: No Adapter Required.						
34GD5	35.0	ET-2761-0	36	87	A	4500	34GD5	35.0	ET-2761-0	36	87	A	4500
34DK3	35.0	EV-020X-0	0	86	C	—	34DK3	35.0	EV-020X-0	0	86	C	—
3436	85.0	ET-1562-0	23	87	A	4500	3436	85.0	ET-1562-0	23	87	A	4500

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
866A	4.3	ER-0100-0	0	92	D	STRIPES AT ABOUT 1
884	6.3	HS-3308-0	*	94	F	STRIPES AT ABOUT 2
885	2.5	FR-3204-0	*	94	F	Ampl. Sect.
{1217	6.3	ET-7562-1	11	59	B	Osc. Sect.
{1217	6.3	ET-1562-7	11	43	B	
1218A	6.3	ET-6705-0	14	89	A	
1222	6.3	GR-4237-8	17	88	A	
2050	6.3	HS-5308-6	*	94	F	STRIPES AT ABOUT 25
2051	6.3	HS-5308-6	*	94	F	STRIPES AT ABOUT 25
4604	6.3	CX-5130-0	38	87	A	
{5636	6.3	DW-1572-4	13	67	A	Grid No. 1
{5636	6.3	DW-1578-1	22	0	B	Grid No. 2
5642	1.1	ES-0100-0	0	0	D	STRIPES AT ABOUT 78
5643	6.3	DW-7106-2	*	85	D	
5654	6.3	ET-1562-0	24	65	A	
{5670	6.3	KR-7608-0	16	86	A	
{5670	6.3	KR-3402-0	18	86	A	
5672	1.1	DV-4120-0	32	21	E	
5675	6.3	HS-3506-0	20	88	A	
5676	1.1	ES-3100-0	26	62	A	
5677	1.1	ES-3100-0	38	21	E	
5678	1.1	DV-4120-0	12	31	B	
5696	6.3	EV-2763-0	11	79	A	
{5687	12.6	EV-7906-1	26	91	A	Triode No. 1
{5687	12.6	EV-2103-9	26	91	A	Triode No. 2
5696	6.3	ET-1602-5	*	94	F	STRIPES AT ABOUT 25
5702	6.3	DU-7128-5	24	65	A	
5703	6.3	DU-5108-0	26	81	A	
5704	6.3	CT-0104-0	0	78	C	Diode
5718	6.3	DW-1805-7	23	89	A	
5719	6.3	DW-1805-7	17	65	A	
5725	6.3	ET-1562-7	11	48	C	
{5726	6.3	ET-0701-6	0	78	C	Diode No. 1
{5726	6.3	ET-0205-6	0	78	C	Diode No. 2
5727	6.3	ET-1602-5	*	94	F	STRIPES AT ABOUT 24
5744	6.3	CT-4105-0	16	73	A	
5749	6.3	CT-1567-2	11	72	A	
{5750	6.3	ET-7562-1	0	35	B	Ampl. Sect.
{5750	6.3	ET-1602-7	20	90	A	STRIPES AT ABOUT 25
5761	12.6	EV-7608-0	12	58	A	Triode No. 1
{5761	12.6	EV-2103-0	12	58	A	Triode No. 2
{5765	12.6	EV-6807-3	11	31	A	
{5765	12.6	EV-3102-6	11	31	A	
5763	6.3	EV-2167-3	11	87	A	
5784	6.3	DU-7128-6	12	76	A	
{5814	12.6	EV-7608-0	16	80	A	Triode No. 1
{5814	12.6	EV-2103-0	16	80	A	Triode No. 2
{5829	6.3	DV-0607-0	0	78	C	Diode No. 1
{5829	6.3	DV-0102-0	0	78	C	Diode No. 2
5840	6.3	DW-1574-0	19	78	A	

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND MUT. COND.	NOTATIONS
5842	6.3	DZ-5105-0	19	93	A	Triode No. 1
{5844	6.3	ET-6207-0	26	81	A	Triode No. 2
{5844	6.3	ET-6107-0	26	81	A	
5847	6.3	DZ-1684-0	11	88	D	Plate No. 1
{5852	6.3	HS-0508-0	0	0	D	Plate No. 2
{5852	6.3	HS-0308-0	0	0	D	STRIPES AT ABOUT 100-110
5878	6.3	HS-3506-0	10	84	A	STRIPES ADAPTER 24-1 CODE SW. 100-110
5881	6.3	HS-5348-1	17	88	A	Plate No. 1
5893	6.3	HS-3506-0	10	87	A	Plate No. 2
{5898	6.3	DW-0507-4	0	80	D	
{5898	6.3	DW-0102-4	0	80	D	
5897	6.3	DW-1805-0	25	94	A	3600
5899	6.3	DW-1674-0	19	73	A	2000
5900	6.3	DW-1674-0	19	73	A	2000
5902	6.3	DW-1572-0	40	86	A	4200
{5903	25.0	DW-0507-4	0	80	D	
{5903	25.0	DW-0102-4	0	80	D	
5904	25.0	DW-1805-0	36	73	A	2000
5905	25.0	DW-1572-0	18	70	B	1800
5905	25.0	DW-1572-0	13	81	A	3000
5907	25.0	DW-1572-0	16	76	B	2200
5908	25.0	DW-1572-4	20	68	B	1760
{5915A	6.3	ET-1562-7	11	68	B	1300
{5915A	6.3	ET-7562-1	11	43	B	900
5916	24.0	DW-1572-4	20	67	A	1600
5930	2.5	ER-3200-0	68	81	A	3000
{5931	5.0	JS-0800-0	0	46	D	
{5931	5.0	JS-0400-0	0	35	D	
5932	6.3	HS-5348-1	17	88	A	5000
5933	6.3	FR-3K24-0	26	85	A	3400
{5963	12.6	EV-7608-0	24	75	A	2200
{5963	12.6	EV-2103-0	24	75	A	2200
5964	6.3	ET-5207-6	21	85	A	4000
{5964	6.3	EV-6107-5	21	85	A	4000
{5965	12.6	EV-7608-1	16	90	A	6500
{5965	12.6	EV-2103-6	16	90	A	6500
5971	1.1	ET-2100-0	20	65	A	1500
5975	6.3	EV-3102-0	28	86	A	4000
5977	6.3	DW-1805-3	32	86	A	4000
5987	6.3	DW-1805-0	74	71	A	1850
5985	6.3	ET-0105-0	0	65	D	
{5988	6.3	HV-4305-2	56	92	A	8000
{5988	6.3	HV-1203-5	56	92	A	8000
6005	6.3	ET-1562-0	11	85	A	4100
6012	6.3	HS-3506-8	*	94	F	
{6021	6.3	DW-7605-0	25	78	A	2500
{6021	6.3	DW-2104-0	26	78	A	2500
6023	20.0	EV-1562-0	24	65	A	1300
6046	25.0	HS-5348-1	33	88	A	5000
6050	1.1	ES-3100-0	28	60	A	1900

Leads-1-3-4-5						
Triode No. 1						
Triode No. 2						
STRIPES AT ABOUT 25						
Triode No. 1						
Triode No. 2						

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TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND NOT. COND.	NOTATIONS
6051	1.1	DW-4120-0	39	0	B	600
6052	6.3	DW-0607-4	0	80	D	—
6053	6.3	DW-0102-4	0	80	D	—
6054	25.0	DW-0507-4	0	80	D	—
6055	25.0	DW-0102-4	0	80	D	—
6056	25.0	DW-1805-0	36	73	A	2000
6057	25.0	DW-1572-0	15	75	B	2200
6058	6.3	ET-0701-6	0	78	C	—
6059	6.3	ET-0205-6	0	78	C	—
6060	12.6	EV-7808-0	18	58	A	1250
6061	12.6	EV-2103-0	18	58	A	1250
6062	7.5	HY-4506-2	100	83	A	3400
6063	7.5	HY-1203-5	100	83	A	3400
6064	25.0	HY-4506-2	100	83	A	3400
6065	25.0	HY-1203-5	100	83	A	3400
6066	6.3	EV-0613-8	18	71	A	1850
6067	12.6	EV-7808-0	18	80	A	2700
6068	12.6	EV-2103-0	18	80	A	2700
6069	20.0	EV-2613-0	18	90	A	6500
6070	6.3	ET-1562-0	24	95	A	1500
6071	6.3	ET-0701-6	0	78	C	—
6072	6.3	ET-0205-6	0	78	C	—
6073	6.3	GV-7351-0	21	38	A	5400
6074	6.3	DW-0307-4	0	74	C	—
6075	6.3	DW-0102-4	0	74	C	—
6076	6.3	DW-7805-0	26	86	A	4000
6077	6.3	DW-2104-0	26	86	A	4000
6078	6.3	DW-7805-0	20	85	A	1500
6079	6.3	DW-2104-0	20	65	A	1500
6080	6.3	HS-4505-3	11	61	A	3000
6081	6.3	ET-0107-0	26	75	A	2200
6082	6.3	ET-1562-2	11	76	A	2200
6083	6.3	HS-4505-3	12	73	A	2000
6084	6.3	HS-5031-8	45	88	A	5000
6085	6.3	DW-7125-5	24	65	A	1500
6086	6.3	EV-5102-0	28	86	A	4000
6087	25.0	HS-5031-8	45	88	A	5000
6088	6.3	ET-1562-2	11	76	A	2200
6089	12.6	EV-7808-0	24	75	A	2200
6090	12.6	EV-2103-0	24	75	A	2200
6091	6.3	EV-2631-7	11	88	A	5000
6092	12.6	EV-7808-0	11	32	A	3000
6093	12.6	EV-2103-0	11	32	A	3000
6094	6.3	ET-0807-1	0	25	D	—
6095	6.3	ET-0107-6	0	25	D	—
6096	6.3	EV-0607-1	0	40	D	—
6097	6.3	EV-0107-9	0	40	D	—
6098	6.3	DW-1572-4	19	78	A	2000
6099	6.3	DW-1572-4	19	73	A	2000
6100	6.3	DW-1572-4	19	73	A	2000
6101	1.1	DW-4120-0	39	0	B	600
6102	6.3	DW-0607-4	0	80	D	—
6103	6.3	DW-0102-4	0	80	D	—
6104	25.0	DW-0507-4	0	80	D	—
6105	25.0	DW-0102-4	0	80	D	—
6106	25.0	DW-1805-0	36	73	A	2000
6107	25.0	DW-1572-0	15	75	B	2200
6108	6.3	ET-0701-6	0	78	C	—
6109	6.3	ET-0205-6	0	78	C	—
6110	12.6	EV-7808-0	18	58	A	1250
6111	12.6	EV-2103-0	18	58	A	1250
6112	7.5	HY-4506-2	100	83	A	3400
6113	7.5	HY-1203-5	100	83	A	3400
6114	25.0	HY-4506-2	100			

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND NOT. COND.	NOTATIONS
6211	12.6	EV-7608-2	24	24	A	3800
6211	12.6	EV-2103-7	24	24	A	3800
6216	6.3	EV-2173-0	20	92	A	9000
6221	6.3	DW-1805-0	23	84	A	3500
6222	6.3	DW-1805-0	22	21	A	850
6223	6.3	DW-1578-0	15	78	A	2500
6225	6.3	DW-1572-0	11	82	A	3100
6245	6.3	DJ-7120-5	24	65	A	1500
6247	6.3	DW-2805-0	11	73	A	2000
6263	6.3	HS-3308-0	18	88	A	5000
6284	6.3	HS-3506-0	10	87	A	4600
6285	6.3	ET-1562-7	12	73	A	2000
6286	1.6	ES-3100-0	42	62	A	1400
6288	6.3	HS-5X31-0	24	80	A	6500
6350	12.6	EV-8607-3	26	87	A	4600
6350	12.6	EV-3102-8	26	87	A	4600
6384	6.3	GV-7351-0	21	89	A	5400
6388	6.3	KR-7808-5	24	86	A	4000
6388	6.3	KR-3482-5	24	86	A	4000
6388	2.5	HR-8360-0	33	72	A	1950
6414	12.6	EV-7808-0	17	84	A	3500
6414	12.6	EV-2103-0	17	84	A	3500
6418	1.4	DW-0204-1	0	0	C	4500
6453	12.6	EV-8607-1	25	88	A	6200
6453	12.6	EV-3102-6	25	88	A	6200
6485	6.3	ET-1562-2	11	91	C	3000
6519	1.4	DW-4210-0	0	0	C	—
6520	7.5	HY-4506-2	100	79	A	2600
6520	7.5	HY-1203-5	100	79	A	2600
6526	1.1	DW-4120-0	90	61	B	1250
6533	6.3	GK-2105-0	20	53	A	1100
6540	6.3	DJ-7126-5	24	65	A	1500
6511	1.4	DW-0204-1	0	0	C	—
6512	1.4	DW-0204-1	0	0	C	—
6559	OFF	AP-0105-0	0	0	C	—
6559	6.3	ET-1562-2	11	72	A	1900
6561	6.3	ET-1562-7	12	73	A	2000
6562	6.3	ET-1562-7	11	72	A	1900
6563	6.3	ET-0701-6	0	78	C	—
6563	6.3	ET-0205-6	0	78	C	—
6564	6.3	ET-0707-0	11	81	A	3000
6568	6.3	ET-1562-7	11	86	A	4100
6576	6.3	ET-1562-7	11	81	A	3000
6577	6.3	EV-2631-7	11	88	A	5000
6578	6.3	EV-0103-0	12	73	A	2000
6579	12.6	EV-7808-0	11	90	A	6000
6579	12.6	EV-2103-0	11	81	A	3000
6580	12.6	EV-7808-0	24	76	A	2500
6580	12.6	EV-2103-0	24	76	A	2500
6201	12.6	EV-7608-2	24	75	A	2200
6201	12.6	EV-2103-7	24	75	A	2200
6202	6.3	EV-2173-0	20	92	A	9000
6202	6.3	DW-1805-0	23	84	A	3500
6203	6.3	DW-1805-0	22	21	A	850
6203	6.3	DW-1578-0	15	78	A	2500
6203	6.3	DW-1572-0	11	82	A	3100
6203	6.3	DJ-7120-5	24	65	A	1500
6203	6.3	DW-2805-0	11	73	A	2000
6203	6.3	HS-3308-0	18	88	A	5000
6203	6.3	HS-3506-0	10	87	A	4600
6203	6.3	ET-1562-7	12	73	A	2000
6203	1.6	ES-3100-0	42	62	A	1400
6203	6.3	HS-5X31-0	24	80	A	6500
6203	12.6	EV-8607-3	26	87	A	4600
6203	12.6	EV-3102-8	26	87	A	4600
6203	6.3	GV-7351-0	21	89	A	5400
6203	6.3	KR-7808-5	24	86	A	4000
6203	6.3	KR-3482-5	24	86	A	4000
6203	2.5	HR-8360-0	33	72	A	1950
6203	12.6	EV-7808-0	17	84	A	3500
6203	12.6	EV-2103-0	17	84	A	3500
6203	1.4	DW-0204-1	0	0	C	4500
6203	12.6	EV-8607-1	25	88	A	6200
6203	12.6	EV-3102-6	25	88	A	6200
6203	6.3	ET-1562-2	11	91	C	3000
6203	1.4	DW-4210-0	0	0	C	—
6203	7.5	HY-4506-2	100	79	A	2600
6203	7.5	HY-1203-5	100	79	A	2600
6203	1.1	DW-4120-0	90	61	B	1250
6203	6.3	GK-2105-0	20	53	A	1100
6203	6.3	DJ-7126-5	24	65	A	1500
6203	1.4	DW-0204-1	0	0	C	—
6203	1.4	DW-0204-1	0	0	C	—
6203	OFF	AP-0105-0	0	0	C	—
6203	6.3	ET-1562-2	11	72	A	1900
6203	6.3	ET-1562-7	12	73	A	2000
6203	6.3	ET-1562-7	11	72	A	1900
6203	6.3	ET-0701-6	0	78	C	—
6203	6.3	ET-0205-6	0	78	C	—
6203	6.3	ET-0707-0	11	81	A	3000
6203	6.3	ET-1562-7	11	86	A	4100
6203	6.3	ET-1562-7	11	81	A	3000
6203	6.3	EV-2631-7	11	88	A	5000
6203	6.3	EV-0103-0	12	73	A	2000
6203	12.6	EV-7808-0	11	90	A	6000
6203	12.6	EV-2103-0	11	81	A	3000
6203	12.6	EV-7808-0	24	76	A	2500
6203	12.6	EV-2103-0	24	76	A	2500
6203	12.6	EV-7608-2	24	75	A	2200
6203	12.6	EV-2103-7	24	75	A	2200

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND NOT. COND.	NOTATIONS
6135	6.3	ET-0107-0	26	75	A	2200
6136	6.3	ET-1562-2	11	76	A	2200
6137	6.3	HS-4505-3	12	73	A	2000
6148	6.3	HS-5031-8	45	88	A	5000
6148	6.3	DW-7125-5	24	65	A	1500
6152	6.3	EV-5102-0	28	86	A	4000
6159	25.0	HS-5031-8	45	88	A	5000
6186	6.3	ET-1562-2	11	76	A	2200
6189	12.6	EV-7808-0	24	75	A	2200
6189	12.6	EV-2103-0	24	75	A	2200
6197	6.3	EV-2631-7	11	88	A	5000
6201	12.6	EV-7608-0	11	32	A	3000
6201	12.6	EV-2103-0	11	32	A	3000
6202	6.3	ET-0807-1	0	25	D	—
6202	6.3	ET-0107-6	0	25	D	—
6203	6.3	EV-0607-1	0	40	D	—
6203	6.3	EV-0107-9	0	40	D	—
6205	6.3	DW-1572-4	19	78	A	2000
6206	6.3	DW-1572-4	19	73	A	2000

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCT. AND NOT. COND.	NOTATIONS
6135	6.3	ET-0107-0	26	75	A	2200
6136	6.3	ET-1562-2	11	76	A	2200
6137	6.3	HS-4505-3	12	73	A	2000
6148	6.3	HS-5031-8	45	88	A	5000
6148	6.3	DW-7125-5	24	65	A	1500
6152	6.3	EV-5102-0	28	86	A	4000
6159	25.0	HS-5031-8	45	88	A	5000
6186	6.3	ET-1562-2	11	76	A	2200
6189	12.6	EV-7808-0	24	75	A	2200
6189	12.6	EV-2103-0	24	75	A	2200
6197	6.3	EV-2631-7	11	88	A	5000
6201	12.6	EV-7608-0	11	32	A	3000
6201	12.6	EV-2103-0	11	32	A	3000
6202	6.3	ET-0807-1	0	25	D	—
6202	6.3	ET-0107-6	0	2		

TUBE TYPE	FILE	SELECTORS	BIAS	SHUNT	FNCT. AND MUT. COND.	NOTATIONS	TUBE TYPE	FILE	SELECTORS	BIAS	SHUNT	FNCT. AND MUT. COND.	NOTATIONS
{6581}	12.6	EV-7608-0	12	56	A	1250	Triode No. 1	{7060}	12.6	EV-8679-0	9	A	3600
{6581}	12.6	EV-2103-0	12	58	A	1250	Triode No. 2	{7060}	12.6	EV-2103-0	13	A	2800
{6583}	6.3	EV-2791-3	11	81	A	3000		{7061}	12.6	EV-3917-0	11	A	4100
{6590}	6.3	DW-7508-0	22	78	A	2500	Triode No. 1	{7119}	12.6	EV-7908-0	24	A	10000
{6590}	6.3	DW-2104-0	22	78	A	2500	Triode No. 2	{7119}	12.6	EV-2103-0	24	A	10000
{6754}	6.3	EV-0907-0	0	80	D	---	Plate No. 1	{7137}	6.3	ET-5702-0	20	A	6000
{6754}	6.3	EV-0103-0	0	80	D	---	Plate No. 2	{7167}	12.6	ET-1562-0	11	B	3000
{6788}	6.3	DW-1572-0	13	41	A	900		{7189}	6.3	EV-2793-0	11	A	6000
{6814}	6.3	DW-1805-0	24	87	A	4500		{7189}	6.3	EV-7236-0	7	A	2500
{6829}	12.6	EV-7608-0	16	90	A	5700	Triode No. 1	{7198}	6.3	EV-9108-0	27	A	2100
{6829}	12.6	EV-2103-0	16	90	A	5700	Triode No. 2	{7212}	6.3	HS-5X31-8	45	A	5000
{6832}	6.3	DW-7805-0	27	51	A	1650	Triode No. 1	{7233}	6.3	EV-2908-0	0	C	---
{6832}	6.3	DW-2104-0	27	51	A	1650	Triode No. 2	{7233}	6.3	EV-1189-7	28	A	2100
{6872}	6.3	DU-7126-5	14	75	A	2500		{7247}	12.6	EV-7009-0	12	A	1250
{6883}	12.6	HS-5X31-8	45	88	A	5000		{7247}	12.6	EV-2103-0	25	A	2200
{6887}	6.3	ET-0701-0	0	83	C	---	Diode No. 1	{7258}	12.6	EV-8679-1	10	A	3700
{6887}	6.3	ET-0205-0	0	83	C	---	Diode No. 2	{7258}	12.6	EV-2173-6	19	A	4400
{6889}	6.3	GY-7X51-0	21	99	A	5400		{7308}	6.3	EV-7608-0	24	A	5500
{6900}	12.6	EV-7906-1	26	91	A	7500	Triode No. 1	{7308}	6.3	EV-2103-0	24	A	5500
{6919}	12.6	EV-2103-9	26	91	A	7500	Triode No. 2	{7316}	12.6	EV-7008-0	24	A	2200
{6919}	6.3	ET-0701-6	0	78	C	---	Diode No. 1	{7316}	12.6	EV-2103-0	24	A	2200
{6919}	6.3	ET-0205-5	0	78	C	---	Diode No. 2	{7357}	6.3	HS-5X31-8	45	A	5000
{6922}	6.3	EV-7608-0	24	89	A	5500	Triode No. 1	{7357}	6.3	HS-5X31-8	23	A	7000
{6922}	6.3	EV-2103-0	24	89	A	5500	Triode No. 2	{7358}	6.3	EV-3021-8	18	A	1300
{6928}	6.3	ET-1562-0	11	86	A	4100		{7370}	20.0	FY-7906-0	26	A	7500
{6943}	6.3	DW-1572-4	14	75	A	2400		{7370}	20.0	JU-2103-0	26	A	7500
{6944}	6.3	DW-1572-4	13	75	A	2300		{7408}	6.3	HS-5X48-1	13	A	4100
{6945}	6.3	DW-1572-0	41	83	A	3200		{7543}	6.3	ET-1567-2	11	A	2300
{6948}	6.3	DW-1805-0	24	86	A	3800	Triode No. 1	{7551}	12.6	EV-2631-7	17	A	6000
{6947}	6.3	DW-7805-0	20	79	A	2600	Triode No. 2	{7558}	6.3	EV-2631-7	17	A	6000
{6947}	6.3	DW-2104-0	20	79	A	2600	Triode No. 1	{7581}	6.3	HS-5348-0	17	A	6000
{6948}	6.3	DW-7805-0	18	68	A	1650	Triode No. 2	{7581}	6.3	HS-5348-0	17	A	6000
{6948}	6.3	DW-2104-0	18	68	A	1650		{7586}	6.3	DR-4208-0	28	A	2500
{6973}	6.3	EV-3917-0	10	85	A	4000		{Model 8000 A:}	6.3	13-4528-0	11	B	3500
{7025}	12.6	EV-7608-0	12	58	A	1250	Triode No. 1	{Model 8000 A:}	6.3	13-4528-0	11	B	3500
{7025}	12.6	EV-2103-0	12	58	A	1250	Triode No. 2	{7587}	6.3	DR-4128-0	71	A	3500
{7027}	6.3	HS-5318-0	17	88	A	6000		{Model 8000 A:}	6.3	13-4528-0	11	B	3500
{7036}	6.3	ET-1562-7	11	42	B	900	Grid No. 1	{7587}	6.3	13-4528-0	11	B	3500
{7036}	6.3	ET-7562-1	11	35	B	900	Grid No. 3	{7587}	6.3	13-4528-0	11	B	3500
{7044}	12.6	EV-7906-0	26	90	A	6000	Triode No. 1	{7587}	6.3	13-4528-0	11	B	3500
{7044}	12.6	EV-2103-0	26	90	A	6000	Triode No. 2	{7591}	6.3	HS-6345-0	10	A	5100
{7054}	12.6	EV-2731-3	11	87	A	4500		{7591}	6.3	HS-6345-0	10	A	5100
{7055}	12.6	ET-0701-6	0	78	C	---	Diode No. 1	{7687}	6.3	EV-1382-0	10	A	1250
{7055}	12.6	ET-0205-6	0	78	C	---	Diode No. 2	{7687}	6.3	EV-2637-0	10	A	3200
{7056}	12.6	ET-1562-7	11	81	A	3000		{7687}	6.3	EV-9108-0	29	A	2100
{7057}	12.6	EV-7608-9	16	87	A	4500	Triode No. 1	{7695}	6.3	EV-6917-0	30	A	9000
{7057}	12.6	EV-2103-9	16	87	A	4500	Triode No. 2	{7701}	12.6	EV-2631-0	10	A	3300
{7058}	12.6	EV-7608-0	12	58	A	1250	Triode No. 1	{7716}	12.6	EV-7906-0	10	A	4500
{7058}	12.6	EV-2103-0	12	58	A	1250	Triode No. 2	{7716}	12.6	EV-0501-0	10	A	1700
{7059}	12.6	EV-2637-0	11	73	A	2000	Pent. Sect.	{7717}	6.3	ET-0562-0	11	B	3000
{7059}	12.6	EV-9108-0	12	90	A	6200	Triode Sect.	{7719}	12.6	EV-2103-0	29	A	3000

OR ADAPTER SH-4,
103-427, NOTE 1

OR ADAPTER SH-4,
103-427, NOTE 1

OR ADAPTER SH-4,
103-427, NOTE 1

OR ADAPTER SH-4,
103-427, NOTE 1

OR ADAPTER SH-4,
103-427, NOTE 1

Pent. Sect.
Triode Sect.

Pent. Sect.
Triode Sect.

Pent. Sect.
Triode Sect.

Jumpers plate cap to Pin 6

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	FUNCTIONAL MUT. COND.	NOTATIONS
7724	12.6	EV-8907-0	10	15	A	Triode Sect.
7724	12.6	EV-0601-0	0	80	C	Diode No. 1
7724	12.6	EV-0203-0	0	80	C	Diode No. 2
7728	12.6	EV-7608-0	11	81	A	Triode No. 1
7728	12.6	EV-2103-0	11	81	A	Triode No. 2
7728	12.6	EV-7603-0	12	58	A	Triode No. 1
7728	12.6	EV-2103-0	12	58	A	Triode No. 2
7730	12.6	EV-7608-0	24	75	A	Triode No. 1
7730	12.6	EV-2103-0	24	75	A	Triode No. 2
7731	6.3	EV-2637-0	11	73	A	Pent. Sect.
7731	6.3	EV-9108-0	12	90	A	Triode Sect.
7732	6.3	ET-1562-7	11	81	A	Triode Sect.
7733	12.6	EV-2781-3	11	87	A	Pent. Sect.
7734	6.3	EV-8917-0	14	72	A	Triode Sect.
7734	6.3	EV-3602-0	64	86	A	Triode Sect.
7737	6.3	EV-2791-8	11	81	A	Triode Sect.
7738	6.3	ET-2105-0	13	89	A	Triode Sect.
7754	6.3	EV-6817-0	30	94	A	Triode Sect.
7757	6.3	DW-6X78-0	11	86	A	Triode Sect.
7759	25.0	DW-7805-0	25	78	A	Triode No. 1
7759	25.0	DW-2104-0	25	78	A	Triode No. 2
7760	25.0	DW-7805-0	36	73	A	Triode No. 1
7760	25.0	DW-2104-0	36	73	A	Triode No. 2
7761	25.0	DW-1672-0	15	87	A	Triode No. 1
7762	25.0	DW-1672-0	40	86	A	Triode No. 2
7802	6.3	HY-4608-2	45	93	A	Triode No. 1
7802	6.3	HY-1203-5	45	93	A	Triode No. 2
7803	6.3	EV-7608-0	22	91	A	Triode No. 1
7803	6.3	EV-2103-0	22	91	A	Triode No. 2
7801	12.6	KR-7608-0	17	86	A	Triode No. 1
7801	12.6	KR-3402-0	17	88	A	Triode No. 2
7807	6.3	HS-5X31-8	23	93	B	Triode No. 1
7807	6.3	EV-2973-0	18	89	A	Triode No. 2
Model 6000 A:	6.3	No Adapter Required.				
7859	25.0	DW-7805-0	20	65	A	Triode No. 1
7859	25.0	DW-2104-0	20	65	A	Triode No. 2
7859	6.3	DR-4208-0	22	82	A	Triode No. 1
Model 6000 A:	6.3					
7855	6.3	13-4208-0	22	82	A	Triode No. 1
7855	6.3	EV-7608-0	11	88	A	Triode No. 2
7858	6.3	EV-2103-0	11	85	A	Triode No. 1
7905	6.3	KR-2680-7	10	88	A	Triode No. 2
7984	12.6	E3-X3A9-0	42	87	A	Triode No. 1
7985	6.3	ER-3782-6	13	82	A	Triode No. 2
8032	12.6	HS-5X31-8	45	88	A	Triode No. 1
8056	6.3	DR-0208-4	0	68	C	Triode No. 2
Model 6000 A:	6.3					
8056	6.3	13-0208-4	0	68	C	Triode No. 1
8058	6.3	DR-5X02-0	19	85	A	Triode No. 2
Model 6000 A:	6.3					
8058	6.3	13-5102-0	19	85	A	Triode No. 1
8058	25.0	DW-1578-0	15	75	A	Triode No. 2
8058	6.3	HS-5X31-8	15	90	A	Triode No. 1
8077	12.6	EV-2781-3	11	87	A	Triode No. 2
8084	12.6	DW-1562-7	18	81	A	Triode No. 1
8086	6.3	GX-2105-0	20	53	A	Triode No. 2
8102	12.6	EV-9678-0	11	81	A	Triode No. 1
8102	12.6	EV-3102-0	21	85	A	Triode No. 2
8106	12.6	EV-7189-0	16	87	A	Triode No. 1
8113	6.3	ET-1567-0	22	82	A	Triode No. 2
8136	6.3	ET-1662-7	12	83	A	Triode No. 1
8148	12.6	E3-X3A9-0	44	88	A	Triode No. 2
8150	12.6	E3-X3A9-0	44	88	A	Triode No. 1
8156	12.6	E3-X3A9-0	25	90	A	Triode No. 2
8185	6.3	JR-2306-0	25	87	A	Triode No. 1
8186	25.0	JR-2306-0	25	87	A	Triode No. 2
8203	6.3	DR-4208-0	29	78	A	Triode No. 1
Model 6000 A:	6.3					
8203	6.3	13-4208-0	29	78	A	Triode No. 2
8236	6.3	HS-1X43-0	43	92	A	Triode No. 1
8258	6.3	HS-5X31-8	23	90	A	Triode No. 2
8327	6.3	EV-2793-0	23	92	A	Triode No. 1
8334	6.3	ET-6705-0	14	88	A	Triode No. 2
8393	12.6	DR-4208-0	27	85	A	Triode No. 1
Model 6000 A:	12.6					
8393	12.6	13-4208-0	27	85	A	Triode No. 2
8417	6.3	HS-5348-0	10	93	A	Triode No. 1
8426	6.3	ET-1567-2	10	80	A	Triode No. 2
8426	12.6	ET-1567-2	10	80	A	Triode No. 1
8431	12.6	EV-7608-0	18	93	A	Triode No. 2
8445	12.6	EV-2103-0	18	93	A	Triode No. 1
8445	6.3	EV-2637-0	10	84	A	Triode No. 2
8446	6.3	EV-9108-0	20	84	A	Triode No. 1
8446	6.3	EV-9678-0	10	82	A	Triode No. 2
8446	6.3	EV-1203-0	14	87	A	Triode No. 1
8489	6.3	EV-8678-0	10	84	A	Triode No. 2
8489	6.3	EV-2103-0	20	85	A	Triode No. 1
8532	6.3	ET-1702-0	20	90	A	Triode No. 2
8562	12.6	HS-5X31-8	23	91	A	Triode No. 1
8628	6.3	BT-4208-0	15	70	A	Triode No. 2
Model 6000 A:	6.3					
8628	6.3	13-4208-0	15	70	A	Triode No. 1

